GROUNDWATER ANALYTICAL

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July 11, 2011

Ms. Cindy Campisano
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

LABORATORY REPORT

Project: **EH&E/17228**
Lab ID: **142678**
Received: **06-15-11**

Dear Cindy:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/ker

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-1	124581		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028711	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-2	124582		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028710	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-3	124583 MS		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028712	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-4	124583 MSD		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019480	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-5	124584		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028713	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-6	124585		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028720	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-7	124586 MS		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028719	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-8	124586 MSD		Soil	6/13/2011 7:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019496	120 mL Amber Glass	n/a	n/a	NaOH	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-9	124587		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028715	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-10	124588		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028709	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-11	124589 MS		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028708	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-12	124589 MSD		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019495	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-13	124590		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019494	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-14	124591		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028723	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-15	124592 MS		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028714	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-16	124592 MSD		Soil	6/13/2011 8:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019497	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-17	124593		Soil	6/13/2011 8:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028718	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-18	124594		Soil	6/13/2011 8:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028717	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-19	124595		Soil	6/13/2011 8:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028619	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-20	124596		Soil	6/13/2011 8:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028611	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-21	124597		Soil	6/13/2011 8:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028721	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-22	124598		Soil	6/13/2011 8:55	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028722	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-23	124599		Soil	6/13/2011 8:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028707	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-24	124600		Soil	6/13/2011 8:59	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028612	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-25	124601		Soil	6/13/2011 9:06	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028700	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-26	124602		Soil	6/13/2011 9:08	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028705	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-27	124603		Soil	6/13/2011 9:22	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028706	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-28	124604		Soil	6/13/2011 9:24	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028704	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-29	124605		Soil	6/13/2011 9:49	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028615	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-30	124606		Soil	6/13/2011 9:58	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028613	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-31	124607		Soil	6/13/2011 10:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028614	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-32	124608		Soil	6/13/2011 10:03	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028703	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-33	124609		Soil	6/13/2011 10:06	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028618	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-34	124610		Soil	6/13/2011 10:08	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028702	120 mL Amber Glass	Proline	BX39300	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-35	124611		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028616	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-36	124612		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028617	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-37	124613 MS		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028623	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-38	124613 MSD		Soil	6/13/2011 10:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019498	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-39	124614		Soil	6/13/2011 10:24	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028624	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-40	124615		Soil	6/13/2011 10:24	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028622	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-41	124616 MS		Soil	6/13/2011 10:28	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028625	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-42	124616 MSD		Soil	6/13/2011 10:28	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019511	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-43	124617		Soil	6/13/2011 10:28	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028621	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-44	124618		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028627	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-45	124619 MS		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028626	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-46	124619 MSD		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2019510	120 mL Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-47	124620		Soil	6/13/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028620	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-48	124621		Soil	6/13/2011 10:48	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028610	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-49	124624		Soil	6/13/2011 10:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028606	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-50	124627		Soil	6/13/2011 11:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028608	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-51	124628		Soil	6/13/2011 11:26	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028607	120 mL Amber Glass	Proline	BX39303	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-52	124631		Soil	6/13/2011 11:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028686	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-53	124634		Soil	6/13/2011 11:34	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028694	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-54	124637		Soil	6/13/2011 11:37	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028690	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-55	124640		Soil	6/13/2011 11:43	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028685	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-56	124643		Soil	6/14/2011 10:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028654	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-57	124644		Soil	6/14/2011 10:20	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028655	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-58	124645		Soil	6/14/2011 10:35	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028674	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-59	124646		Soil	6/14/2011 10:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028699	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-60	124647		Soil	6/14/2011 10:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028692	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-61	124648		Soil	6/14/2011 11:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028677	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-62	124649		Soil	6/14/2011 11:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028681	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-63	124650		Soil	6/14/2011 11:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028678	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-64	124651		Soil	6/14/2011 11:20	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028680	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-65	124652		Soil	6/14/2011 11:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028676	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-66	124653		Soil	6/14/2011 11:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028672	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-67	124654		Soil	6/14/2011 11:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028671	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-68	124655		Soil	6/14/2011 12:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028673	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-69	124346		Soil	6/14/2011 12:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028670	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-70	124347		Soil	6/14/2011 12:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028664	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-71	124348		Soil	6/14/2011 12:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028663	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-72	124349		Soil	6/14/2011 12:33	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028665	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-73	124350		Soil	6/14/2011 13:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028662	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-74	124351		Soil	6/14/2011 13:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028657	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-75	124352		Soil	6/14/2011 13:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028656	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-76	124353		Soil	6/14/2011 13:15	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028696	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-77	124354		Soil	6/14/2011 13:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028679	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **EH&E/17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **142678**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **06-15-11**

Temperature: **2.8ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-78	124355		Soil	6/14/2011 13:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028691	120 mL Amber Glass	Proline	BX39301	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-79	124356		Soil	6/14/2011 13:40	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028669	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-80	124357		Soil	6/14/2011 13:40	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028666	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-81	124358		Soil	6/14/2011 13:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028661	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-82	124359		Soil	6/14/2011 13:50	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028658	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-83	124360		Soil	6/14/2011 14:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028653	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-84	124361		Soil	6/14/2011 14:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028675	120 mL Amber Glass	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-85	124362		Soil	6/14/2011 14:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028634	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-86	124363		Soil	6/14/2011 14:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028639	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-87	124364		Soil	6/14/2011 14:30	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028635	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-88	124365		Soil	6/14/2011 14:35	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028642	120 mL Amber Glass	Proline	BX39294	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**EH&E/17228**	Delivery:	**GWA Courier**	Temperature:	**2.8°C**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**142678**	Lab Receipt:	**06-15-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-89	124366		Soil	6/14/2011 14:52	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028667	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-90	124367		Soil	6/14/2011 14:57	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028660	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-91	124368		Soil	6/14/2011 15:05	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028659	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-92	124369		Soil	6/14/2011 15:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2028652	120 mL Amber Glas	Proline	BX39302	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-93	124370		Aqueous	6/14/2011 14:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033012	1 L Amber Glass	Proline	BX39211	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
142678-94	124371		Aqueous	6/14/2011 14:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**	**Receipt**	**Notes**
C2033011	1 L Amber Glass	Proline	BX39211	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project: **EH&E/17228** Lab ID: **142678**
Client: **Environmental Health & Engineering, Inc.** Received: **06-15-11 19:15**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8082: 142678-1 through -94

Sample Matrices: Groundwater/Surface (X) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC CAM II A ( )	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	NA
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	No
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Karyn E. Raymond Position: Project Manager

Printed Name: Karyn E. Raymond Date: 07-11-11

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124581**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-01**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**82**
Analyzed:	**06-21-11 11:21**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**300**	2C (290)*	ug/Kg	47
11096-82-5	Aroclor 1260	**230**	2C (170)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	4	**53** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**63** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	4	**53** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**60** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124582**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-02**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**82**
Analyzed:	**06-21-11 11:54**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**500**	1C (470)*	ug/Kg	47
11096-82-5	Aroclor 1260	**360**	2C (280)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**79** %	30 - 150 %
	Decachlorobiphenyl	8	8	**97** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**79** %	30 - 150 %
	Decachlorobiphenyl	8	7	**91** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124581**	Laboratory ID:	142678-01	142678-03	142678-04
Project:	**EH&E/17228**	Sampled:	06-13-11 07:55	06-13-11 07:55	06-13-11 07:55
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-16-11 14:15	06-16-11 14:15	06-16-11 14:15
Container:	**120 mL Amber Glass**	Cleaned Up:	06-20-11 21:00	06-20-11 21:00	06-20-11 21:00
Preservation:	**Cool**	Analyzed:	06-21-11 11:21	06-21-11 12:18	06-21-11 12:18
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3757-X	PB-3757-X	PB-3757-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 689(	GC-11 Agilent 6890
		Sample Weight:	31g	30g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	82	82	82
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	200	190	210	**95 %**	**104 %**	200	220	240	**111 %**	**120 %**	**14 %**	**13 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	230	200	400	480	**111 %**	**121 %**	200	450	540	**136 %**	**155 %** s	**11 %**	**13 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**53%**	8	6	6	**70%**	**69%**	8	6	6	**71%**	**71%**		30 - 150 %
Decachlorobiphenyl	**63%**	8	7	6	**81%**	**80%**	8	9	9	**117%**	**109%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

s Result outside recommended limits due to analyte concentration native to the sample.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124584**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-05**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**89**
Analyzed:	**06-22-11 03:00**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	**300**	2C (240)*	ug/Kg	45
11097-69-1	Aroclor 1254	**170**	2C (140)*	ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**80** %	30 - 150 %
	Decachlorobiphenyl	7	6	**75** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**84** %	30 - 150 %
	Decachlorobiphenyl	7	6	**75** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124585**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-06**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 07:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 13:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	**230**	1C (210)*	ug/Kg	44
11097-69-1	Aroclor 1254	**250**	1C (190)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**84** %	30 - 150 %
	Decachlorobiphenyl	7	6	**75** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**95** %	30 - 150 %
	Decachlorobiphenyl	7	5	**72** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.
* Confirmatory column quantification.
1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124584**	Laboratory ID:	142678-05	142678-07	142678-08
Project:	**EH&E/17228**	Sampled:	06-13-11 07:55	06-13-11 07:55	06-13-11 07:55
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-16-11 17:30	06-16-11 17:30	06-16-11 17:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-21-11 23:00	06-21-11 23:00	06-21-11 23:00
Preservation:	**Cool**	Analyzed:	06-22-11 03:00	06-22-11 03:23	06-22-11 03:47
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3758-X	PB-3758-X	PB-3758-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	89	89	89
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	190	340	370	**182 %** m	**201 %** m	180	360	370	**199 %** m	**202 %** m	**8 %**	**1 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	190	230	280	**125 %**	**150 %** m	180	260	300	**140 %**	**163 %** m	**10 %**	**7 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**80%**	7	6	6	**82%**	**81%**	7	6	6	**85%**	**83%**		30 - 150 %
Decachlorobiphenyl	**75%**	7	7	8	**100%**	**107%**	7	7	9	**98%**	**120%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Result outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124587**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-09**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**87**
Analyzed:	**06-24-11 18:57**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**170**	1C (130)*	ug/Kg	45
11096-82-5	Aroclor 1260	**110**	2C (69)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**92** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**97** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**96** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**104** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124588**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-10**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 13:29**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**210**	1C (180)*	ug/Kg	45
11096-82-5	Aroclor 1260	**130**	2C (94)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**93** %	30 - 150 %
	Decachlorobiphenyl	7	8	**110** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**90** %	30 - 150 %
	Decachlorobiphenyl	7	8	**107** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124587**	Laboratory ID:	142678-09	142678-11	142678-12
Project:	**EH&E/17228**	Sampled:	06-13-11 08:10	06-13-11 08:10	06-13-11 08:10
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-21-11 13:30	06-21-11 13:30	06-21-11 13:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-24-11 15:00	06-24-11 15:00	06-24-11 15:00
Preservation:	**Cool**	Analyzed:	06-24-11 18:57	06-24-11 19:21	06-24-11 19:45
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3760-X	PB-3760-X	PB-3760-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	31g	30g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	87	87	87
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	190	240	200	**125 %**	**105 %**	190	210	220	**109 %**	**114 %**	**12 %**	**9 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	110	190	260	290	**101 %**	**93 %**	190	260	320	**100 %**	**109 %**	**1 %**	**11 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**80%**	8	6	7	**77%**	**91%**	8	6	7	**81%**	**85%**		30 - 150 %
Decachlorobiphenyl	**75%**	8	7	7	**90%**	**94%**	8	7	8	**96%**	**106%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124590**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-13**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**86**
Analyzed:	**06-27-11 13:07**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	**97**	1C (63)*	ug/Kg	46
11096-82-5	Aroclor 1260	**47**	2C (34)*	ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	7	**84** %	30 - 150 %
	Decachlorobiphenyl	8	7	**94** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**83** %	30 - 150 %
	Decachlorobiphenyl	8	7	**96** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124591**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-14**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:10**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 13:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**80**	1C (75)*	ug/Kg	44
11096-82-5	Aroclor 1260	**58**	2C (34)*	ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**77** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**1245890**	Laboratory ID:	142678-13	142678-15	142678-16
Project:	**EH&E/17228**	Sampled:	06-13-11 08:10	06-13-11 08:10	06-13-11 08:10
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-22-11 03:00	06-22-11 03:00	06-22-11 03:00
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 18:00	06-25-11 18:00	06-25-11 18:00
Preservation:	**Cool**	Analyzed:	06-27-11 13:07	06-27-11 13:30	06-27-11 13:54
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3761-X	PB-3761-X	PB-3761-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	86	86	86
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	190	200	190	**105 %**	**101 %**	190	200	190	**110 %**	**100 %**	**2 %**	**3 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	47	190	210	250	**96 %**	**107 %**	190	220	240	**99 %**	**106 %**	**1 %**	**3 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**84%**	8	6	6	**78%**	**79%**	7	6	6	**82%**	**82%**		30 - 150 %
Decachlorobiphenyl	**94%**	8	7	7	**92%**	**94%**	7	7	7	**98%**	**97%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124593**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-17**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**91**
Analyzed:	**06-21-11 15:31**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**260**	2C (250)*	ug/Kg	43
11096-82-5	Aroclor 1260	**180**	2C (100)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
Column	Decachlorobiphenyl	7	8	**113** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
Column	Decachlorobiphenyl	7	9	**119** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124594**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-18**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**85**
Analyzed:	**06-21-11 15:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	**85**	1C (77)*	ug/Kg	46
11096-82-5	Aroclor 1260	**63**	2C (46)*	ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**72** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**81** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**82** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124595**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-19**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-21-11 16:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**610**	e 2C (580)*	ug/Kg	42
11096-82-5	Aroclor 1260	**380**	e 2C (210)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**54** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**55** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124595**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-19RA1**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-21-11 21:49**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	BRL		ug/Kg	210
11097-69-1	Aroclor 1254	**640**	2C (640)*	ug/Kg	210
11096-82-5	Aroclor 1260	**440**	2C (240)*	ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**53** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**57** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**89** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124596**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-20**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**94**
Analyzed:	**06-21-11 16:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**160**	1C (140)*	ug/Kg	42
11096-82-5	Aroclor 1260	**97**	2C (48)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**75** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**84** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**77** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**92** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124597**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-21**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:50**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-21-11 17:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	**420**	e 1C (340)*	ug/Kg	43
11097-69-1	Aroclor 1254	**150**	2C (120)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**90** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124597**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-21RA1**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:50**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**93**
Analyzed:	**06-22-11 23:59**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**510**	1C (380)*	ug/Kg	210
11097-69-1	Aroclor 1254	BRL		ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**93** %	30 - 150 %
	Decachlorobiphenyl	7	6	**89** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**98** %	30 - 150 %
	Decachlorobiphenyl	7	6	**88** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124598**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-22**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:55**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**89**
Analyzed:	**06-21-11 17:29**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**73**	1C (45)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**83** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124599**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-23**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:57**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**92**
Analyzed:	**06-21-11 17:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**160**	1C (130)*	ug/Kg	43
11096-82-5	Aroclor 1260	**79**	2C (47)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**80** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**89** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**79** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**95** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124600**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-24**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 08:59**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**91**
Analyzed:	**06-21-11 18:16**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**100**	1C (92)*	ug/Kg	43
11096-82-5	Aroclor 1260	**76**	2C (45)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**91** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**88** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**99** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124601**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-25**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:06**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**89**
Analyzed:	**06-21-11 18:40**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**350**	2C (340)*	ug/Kg	45
11096-82-5	Aroclor 1260	**300**	2C (250)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**90** %	30 - 150 %
Column	Decachlorobiphenyl	7	8	**102** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
Column	Decachlorobiphenyl	7	8	**103** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124602**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-26**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:08**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**90**
Analyzed:	**06-21-11 19:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**470**	1C (430)*	ug/Kg	45
11096-82-5	Aroclor 1260	**320**	2C (240)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**88** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**97** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124603**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-27**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:22**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**94**
Analyzed:	**06-21-11 20:38**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**310**	2C (300)*	ug/Kg	42
11096-82-5	Aroclor 1260	**180**	2C (120)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**76** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**90** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**87** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124604**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-28**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:24**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**88**
Analyzed:	**06-21-11 21:02**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**250**	2C (250)*	ug/Kg	44
11096-82-5	Aroclor 1260	**170**	2C (100)*	ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**73** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**73** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**87** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124605**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-29**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:49**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**80**
Analyzed:	**06-21-11 21:25**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	49
11104-28-2	Aroclor 1221	BRL		ug/Kg	49
11141-16-5	Aroclor 1232	BRL		ug/Kg	49
53469-21-9	Aroclor 1242	BRL		ug/Kg	49
12672-29-6	Aroclor 1248	BRL		ug/Kg	49
11097-69-1	Aroclor 1254	**2,500**	e 1C (2500)*	ug/Kg	49
11096-82-5	Aroclor 1260	**1,800**	e 2C (1200)*	ug/Kg	49
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	49
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	49

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**56** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**57** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**56** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**72** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124605**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-29RA1**	QC Batch ID:	**PB-3757-X**
Sampled:	**06-13-11 09:49**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 14:15**	Final Volume:	**1 mL**
Cleaned Up:	**06-20-11 21:00**	Percent Solids:	**80**
Analyzed:	**06-23-11 00:23**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	490
11104-28-2	Aroclor 1221	BRL		ug/Kg	490
11141-16-5	Aroclor 1232	BRL		ug/Kg	490
53469-21-9	Aroclor 1242	BRL		ug/Kg	490
12672-29-6	Aroclor 1248	BRL		ug/Kg	490
11097-69-1	Aroclor 1254	**3,200**	2C (2600)*	ug/Kg	490
11096-82-5	Aroclor 1260	**1,500**	2C (1200)*	ug/Kg	490
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	490
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	490

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**61** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**59** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**76** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124606**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-30**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 09:58**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**86**
Analyzed:	**06-22-11 04:10**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**610**	e 2C (530)*	ug/Kg	47
11096-82-5	Aroclor 1260	**270**	2C (220)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**69** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**69** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**85** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124606**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-30RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 09:58**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**86**
Analyzed:	**06-23-11 00:46**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	230
11104-28-2	Aroclor 1221	BRL		ug/Kg	230
11141-16-5	Aroclor 1232	BRL		ug/Kg	230
53469-21-9	Aroclor 1242	BRL		ug/Kg	230
12672-29-6	Aroclor 1248	BRL		ug/Kg	230
11097-69-1	Aroclor 1254	**670**	2C (530)*	ug/Kg	230
11096-82-5	Aroclor 1260	BRL		ug/Kg	230
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	230
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	230

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**75** %	30 - 150 %
	Decachlorobiphenyl	8	5	**63** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**79** %	30 - 150 %
	Decachlorobiphenyl	8	5	**65** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124607**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-31**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**86**
Analyzed:	**06-22-11 04:34**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	**380**	1C (220)*	ug/Kg	46
11097-69-1	Aroclor 1254	**350**	1C (310)*	ug/Kg	46
11096-82-5	Aroclor 1260	BRL		ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**72** %	30 - 150 %
	Decachlorobiphenyl	8	5	**63** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**74** %	30 - 150 %
	Decachlorobiphenyl	8	6	**82** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124608**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-32**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:03**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 04:57**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	**390**	1C (310)*	ug/Kg	43
11097-69-1	Aroclor 1254	**460**	e 1C (390)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**79** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**83** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124608**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-32RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:03**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-23-11 01:34**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**630**	1C (330)*	ug/Kg	210
11097-69-1	Aroclor 1254	**440**	2C (420)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**83** %	30 - 150 %
	Decachlorobiphenyl	7	6	**85** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
	Decachlorobiphenyl	7	6	**89** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124609**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-33**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:06**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 05:21**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**180**	1C (130)*	ug/Kg	42
11097-69-1	Aroclor 1254	**240**	1C (200)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	4	**63** %	30 - 150 %
	Decachlorobiphenyl	7	5	**69** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**64** %	30 - 150 %
	Decachlorobiphenyl	7	6	**84** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.
* Confirmatory column quantification.
1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124610**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-34**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:08**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**93**
Analyzed:	**06-22-11 06:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**660**	e 1C (480)*	ug/Kg	42
11097-69-1	Aroclor 1254	**510**	e 2C (500)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
	Decachlorobiphenyl	7	5	**73** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
	Decachlorobiphenyl	7	6	**78** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124610**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-34RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:08**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**93**
Analyzed:	**06-23-11 01:57**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**700**	1C (530)*	ug/Kg	210
11097-69-1	Aroclor 1254	**590**	2C (520)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**75** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**77** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124611**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-35**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 00:51**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**900**	e 2C (730)*	ug/Kg	42
11097-69-1	Aroclor 1254	**470**	e 1C (380)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**100** %	30 - 150 %
	Decachlorobiphenyl	7	7	**105** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**105** %	30 - 150 %
	Decachlorobiphenyl	7	8	**108** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124611**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-35RA1**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 11:15**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**930**	2C (730)*	ug/Kg	210
11097-69-1	Aroclor 1254	**380**	2C (360)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**95** %	30 - 150 %
	Decachlorobiphenyl	7	7	**100** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
	Decachlorobiphenyl	7	7	**106** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124612**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-36**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 01:15**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**900**	e 2C (740)*	ug/Kg	41
11097-69-1	Aroclor 1254	**640**	e 1C (390)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**108** %	30 - 150 %
	Decachlorobiphenyl	7	7	**107** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**114** %	30 - 150 %
	Decachlorobiphenyl	7	7	**107** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124612**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-36RA1**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 11:39**	Dilution Factor:	**2**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	83
11104-28-2	Aroclor 1221	BRL		ug/Kg	83
11141-16-5	Aroclor 1232	BRL		ug/Kg	83
53469-21-9	Aroclor 1242	BRL		ug/Kg	83
12672-29-6	Aroclor 1248	**800**	2C (750)*	ug/Kg	83
11097-69-1	Aroclor 1254	**610**	1C (390)*	ug/Kg	83
11096-82-5	Aroclor 1260	BRL		ug/Kg	83
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	83
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	83

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**107** %	30 - 150 %
	Decachlorobiphenyl	7	8	**109** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**114** %	30 - 150 %
	Decachlorobiphenyl	7	8	**111** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124611**	Laboratory ID:	142678-35	142678-37	142678-38
Project:	**EH&E/17228**	Sampled:	06-13-11 10:23	06-13-11 10:23	06-13-11 10:23
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-23-11 20:30	06-23-11 20:30	06-23-11 20:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 20:00	06-25-11 20:00	06-25-11 20:00
Preservation:	**Cool**	Analyzed:	06-28-11 11:15	06-28-11 12:03	06-28-11 12:27
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3762-X	PB-3762-X	PB-3762-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	94	94	94
		Dilution Factor:	5	5	5

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	170	550	570	**318 %** m	**329 %** m	180	500	520	**286 %** m	**294 %** m	**10 %**	**10 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	170	310	410	**177 %** m	**233 %** m	180	280	380	**159 %** m	**216 %** m	**10 %**	**7 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**95%**	7	7	8	**106%**	**113%**	7	7	7	**100%**	**104%**		30 - 150 %
Decachlorobiphenyl	**100%**	7	7	8	**104%**	**114%**	7	7	7	**95%**	**101%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124614**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-39**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**95**
Analyzed:	**06-28-11 03:38**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**1,300**	e 2C (850)*	ug/Kg	42
11097-69-1	Aroclor 1254	**640**	e 1C (460)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**103** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**105** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	8	**110** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**107** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124614**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-39RA1**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**95**
Analyzed:	**06-28-11 12:51**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**1,200**	2C (770)*	ug/Kg	210
11097-69-1	Aroclor 1254	**620**	1C (460)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**102** %	30 - 150 %
	Decachlorobiphenyl	7	7	**101** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	8	**109** %	30 - 150 %
	Decachlorobiphenyl	7	7	**107** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124615**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-40**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**96**
Analyzed:	**06-22-11 07:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**670**	e 2C (430)*	ug/Kg	41
11097-69-1	Aroclor 1254	**460**	2C (430)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
	Decachlorobiphenyl	7	5	**76** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**91** %	30 - 150 %
	Decachlorobiphenyl	7	6	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124615**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-40RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:24**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**96**
Analyzed:	**06-23-11 02:21**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**620**	2C (580)*	ug/Kg	210
11097-69-1	Aroclor 1254	**520**	2C (460)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**90** %	30 - 150 %
	Decachlorobiphenyl	7	6	**85** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**96** %	30 - 150 %
	Decachlorobiphenyl	7	7	**96** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124614**	Laboratory ID:	142678-39	142678-41	142678-42
Project:	**EH&E/17228**	Sampled:	06-13-11 10:24	06-13-11 10:24	06-13-11 10:24
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-23-11 20:30	06-23-11 20:30	06-23-11 20:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 20:00	06-25-11 20:00	06-25-11 20:00
Preservation:	**Cool**	Analyzed:	06-28-11 12:51	06-28-11 14:02	06-28-11 14:26
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3762-X	PB-3762-X	PB-3762-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	30g	30g	30g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	95	95	95
		Dilution Factor:	5	5	5

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	170	540	520	**310 %** m	**300 %** m	170	520	500	**301 %** m	**288 %** m	**3 %**	**4 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	170	300	410	**176 %** m	**240 %** m	170	300	420	**173 %** m	**242 %** m	**2 %**	**1 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**102%**	7	7	7	**103%**	**104%**	7	7	7	**100%**	**104%**		30 - 150 %
Decachlorobiphenyl	**101%**	7	7	7	**98%**	**102%**	7	7	7	**98%**	**101%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124617**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-43**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-13-11 10:28**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**97**
Analyzed:	**06-28-11 04:49**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**430**	1C (420)*	ug/Kg	41
11097-69-1	Aroclor 1254	**110**	1C (98)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	7	**96** %	30 - 150 %
	Decachlorobiphenyl	7	7	**101** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**103** %	30 - 150 %
	Decachlorobiphenyl	7	7	**105** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.
* Confirmatory column quantification.
1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124618**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-44**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 08:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**420**	1C (370)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**85** %	30 - 150 %
	Decachlorobiphenyl	7	5	**69** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**90** %	30 - 150 %
	Decachlorobiphenyl	7	6	**79** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**124617**	Laboratory ID:	142678-43	142678-45	142678-46
Project:	**EH&E/17228**	Sampled:	06-13-11 10:28	06-13-11 10:28	06-13-11 10:28
Client:	**Environmental Health & Engineering, Inc.**	Received:	06-15-11 19:15	06-15-11 19:15	06-15-11 19:15
Matrix:	**Soil**	Extracted:	06-23-11 20:30	06-23-11 20:30	06-23-11 20:30
Container:	**120 mL Amber Glass**	Cleaned Up:	06-25-11 20:00	06-25-11 20:00	06-25-11 20:00
Preservation:	**Cool**	Analyzed:	06-28-11 04:49	06-28-11 14:50	06-28-11 15:14
		Analyst:	CRL	CRL	CRL
		QC Batch ID:	PB-3762-X	PB-3762-X	PB-3762-X
		Instrument ID:	GC-11 Agilent 6890	GC-11 Agilent 6890	GC-11 Agilent 6890
		Sample Weight:	31g	31g	31g
		Final Volume:	1 mL	1 mL	1 mL
		Percent Solids:	97	97	95
		Dilution Factor:	1	1	1

CAS Number	Analyte	Unspiked	MS	MS Measured		MS Recovery		MSD	MSD Measured		MSD Recovery		RPD		QC Limits	
		Sample (ug/Kg)	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	Spiked (ug/Kg)	1st Col (ug/Kg)	2nd Col (ug/Kg)	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	BRL	170	650	770	**381 %** m	**447 %** m	170	590	660	**348 %** m	**389 %** m	**10 %**	**14 %**	40 - 140%	50 %
11096-82-5	Aroclor 1260	BRL	170	370	420	**217 %** m	**245 %** m	170	340	360	**200 %** m	**212 %** m	**9 %**	**15 %**	40 - 140%	50 %

QC Surrogate Compound	Surrogate Recovery												QC Limits
Tetrachloro-*m*-xylene	**96%**	7	9	9	**129%**	**130%**	7	7	7	**107%**	**108%**		30 - 150 %
Decachlorobiphenyl	**101%**	7	8	8	**120%**	**124%**	7	7	8	**106%**	**111%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3546. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

m Recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124620**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-47**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:45**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**94**
Analyzed:	**06-22-11 08:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**450**	1C (330)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**79** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**64** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**66** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124621**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-48**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:48**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**95**
Analyzed:	**06-22-11 08:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**330**	1C (310)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**78** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**64** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**83** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**69** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124624**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-49**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 10:57**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**92**
Analyzed:	**06-22-11 09:17**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	**120**	1C (110)*	ug/Kg	43
11097-69-1	Aroclor 1254	**210**	1C (210)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**69** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**94** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**82** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124627**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-50**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:00**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**92**
Analyzed:	**06-22-11 09:40**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**290**	1C (250)*	ug/Kg	43
11096-82-5	Aroclor 1260	**170**	2C (95)*	ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**86** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**76** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**103** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124628**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-51**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:26**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**87**
Analyzed:	**06-22-11 10:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**160**	2C (110)*	ug/Kg	45
11096-82-5	Aroclor 1260	**99**	2C (58)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**80** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**80** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**111** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124631**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-52**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:30**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**87**
Analyzed:	**06-22-11 10:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**120**	2C (110)*	ug/Kg	45
11096-82-5	Aroclor 1260	**79**	2C (46)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**82** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**91** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**112** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124634**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-53**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:34**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**92**
Analyzed:	**06-22-11 12:02**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**140**	2C (110)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**41** %	30 - 150 %
Column	Decachlorobiphenyl	7	3	**34** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**42** %	30 - 150 %
Column	Decachlorobiphenyl	7	3	**41** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124637**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-54**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:37**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**84**
Analyzed:	**06-22-11 12:26**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**510**	2C (450)*	ug/Kg	47
11096-82-5	Aroclor 1260	**360**	2C (240)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**101** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124640**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-55**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:43**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**95**
Analyzed:	**06-22-11 12:49**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**1,300**	e 2C (940)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**65** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**52** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**67** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**64** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124640**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-55RA1**	QC Batch ID:	**PB-3758-X**
Sampled:	**06-13-11 11:43**	Instrument ID:	**GC-11 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-16-11 17:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-21-11 23:00**	Percent Solids:	**95**
Analyzed:	**06-23-11 02:44**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	410
11104-28-2	Aroclor 1221	BRL		ug/Kg	410
11141-16-5	Aroclor 1232	BRL		ug/Kg	410
53469-21-9	Aroclor 1242	BRL		ug/Kg	410
12672-29-6	Aroclor 1248	BRL		ug/Kg	410
11097-69-1	Aroclor 1254	**1,500**	2C (1300)*	ug/Kg	410
11096-82-5	Aroclor 1260	BRL		ug/Kg	410
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	410
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	410

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**68** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**62** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124643**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-56**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**94**
Analyzed:	**06-24-11 20:09**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**110**	2C (66)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**40** %	30 - 150 %
Column	Decachlorobiphenyl	7	3	**47** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**44** %	30 - 150 %
Column	Decachlorobiphenyl	7	3	**48** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124644**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-57**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**93**
Analyzed:	**06-24-11 20:33**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**64**	2C (47)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**64** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**79** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**66** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**80** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124645**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-58**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:35**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**92**
Analyzed:	**06-24-11 20:56**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	**340**	2C (220)*	ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**80** %	30 - 150 %
	Decachlorobiphenyl	7	6	**88** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**84** %	30 - 150 %
	Decachlorobiphenyl	7	7	**91** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
† Non-target analyte. Result is based on a single mid-range calibration standard.
* Confirmatory column quantification.
2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124646**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-59**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**90**
Analyzed:	**06-24-11 21:20**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**100**	2C (72)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**67** %	30 - 150 %
	Decachlorobiphenyl	7	6	**84** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**69** %	30 - 150 %
	Decachlorobiphenyl	7	7	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124647**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-60**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**84**
Analyzed:	**06-24-11 22:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**1,300**	e 2C (860)*	ug/Kg	47
11096-82-5	Aroclor 1260	BRL		ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	4	**55** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**58** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**68** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124647**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-60RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 10:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**84**
Analyzed:	**06-28-11 08:23**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	240
11104-28-2	Aroclor 1221	BRL		ug/Kg	240
11141-16-5	Aroclor 1232	BRL		ug/Kg	240
53469-21-9	Aroclor 1242	BRL		ug/Kg	240
12672-29-6	Aroclor 1248	BRL		ug/Kg	240
11097-69-1	Aroclor 1254	**1,300**	2C (1100)*	ug/Kg	240
11096-82-5	Aroclor 1260	BRL		ug/Kg	240
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	240
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	240

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**61** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**66** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**70** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124648**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-61**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**87**
Analyzed:	**06-24-11 23:19**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	**340**	2C (230)*	ug/Kg	46
11096-82-5	Aroclor 1260	BRL		ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	5	**61** %	30 - 150 %
	Decachlorobiphenyl	8	6	**73** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**64** %	30 - 150 %
	Decachlorobiphenyl	8	6	**77** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124649**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-62**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**88**
Analyzed:	**06-24-11 23:43**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**300**	2C (210)*	ug/Kg	44
11096-82-5	Aroclor 1260	BRL		ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**71** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**82** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124650**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-63**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**91**
Analyzed:	**06-25-11 00:07**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	BRL		ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**66** %	30 - 150 %
	Decachlorobiphenyl	7	6	**83** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	5	**69** %	30 - 150 %
	Decachlorobiphenyl	7	6	**86** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124651**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-64**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**81**
Analyzed:	**06-25-11 00:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	49
11104-28-2	Aroclor 1221	BRL		ug/Kg	49
11141-16-5	Aroclor 1232	BRL		ug/Kg	49
53469-21-9	Aroclor 1242	BRL		ug/Kg	49
12672-29-6	Aroclor 1248	BRL		ug/Kg	49
11097-69-1	Aroclor 1254	**1,100**	e 2C (990)*	ug/Kg	49
11096-82-5	Aroclor 1260	BRL		ug/Kg	49
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	49
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	49

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**69** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**85** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**71** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**85** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124651**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-64RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**81**
Analyzed:	**06-28-11 08:47**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	240
11104-28-2	Aroclor 1221	BRL		ug/Kg	240
11141-16-5	Aroclor 1232	BRL		ug/Kg	240
53469-21-9	Aroclor 1242	BRL		ug/Kg	240
12672-29-6	Aroclor 1248	BRL		ug/Kg	240
11097-69-1	Aroclor 1254	**1,200**	2C (990)*	ug/Kg	240
11096-82-5	Aroclor 1260	BRL		ug/Kg	240
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	240
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	240

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	7	**80** %	30 - 150 %
	Decachlorobiphenyl	8	7	**91** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	7	**83** %	30 - 150 %
	Decachlorobiphenyl	8	7	**88** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124652**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-65**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**82**
Analyzed:	**06-25-11 00:54**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	48
11104-28-2	Aroclor 1221	BRL		ug/Kg	48
11141-16-5	Aroclor 1232	BRL		ug/Kg	48
53469-21-9	Aroclor 1242	BRL		ug/Kg	48
12672-29-6	Aroclor 1248	BRL		ug/Kg	48
11097-69-1	Aroclor 1254	**490**	e 2C (360)*	ug/Kg	48
11096-82-5	Aroclor 1260	BRL		ug/Kg	48
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	48
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	48

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**81** %	30 - 150 %
	Decachlorobiphenyl	8	8	**95** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	7	**87** %	30 - 150 %
	Decachlorobiphenyl	8	8	**99** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124652**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-65RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**82**
Analyzed:	**06-28-11 09:11**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	240
11104-28-2	Aroclor 1221	BRL		ug/Kg	240
11141-16-5	Aroclor 1232	BRL		ug/Kg	240
53469-21-9	Aroclor 1242	BRL		ug/Kg	240
12672-29-6	Aroclor 1248	BRL		ug/Kg	240
11097-69-1	Aroclor 1254	**510**	2C (380)*	ug/Kg	240
11096-82-5	Aroclor 1260	BRL		ug/Kg	240
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	240
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	240

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**87** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**94** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**93** %	30 - 150 %
Column	Decachlorobiphenyl	8	8	**99** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124653**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-66**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**82**
Analyzed:	**06-25-11 01:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	48
11104-28-2	Aroclor 1221	BRL		ug/Kg	48
11141-16-5	Aroclor 1232	BRL		ug/Kg	48
53469-21-9	Aroclor 1242	BRL		ug/Kg	48
12672-29-6	Aroclor 1248	BRL		ug/Kg	48
11097-69-1	Aroclor 1254	**240**	2C (190)*	ug/Kg	48
11096-82-5	Aroclor 1260	**300**	2C (190)*	ug/Kg	48
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	48
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	48

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**69** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**78** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	6	**71** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**82** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124654**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-67**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 11:57**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**84**
Analyzed:	**06-25-11 01:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**58**	2C (51)*	ug/Kg	47
11096-82-5	Aroclor 1260	**62**	2C (44)*	ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**83** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**84** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**85** %	30 - 150 %
Column	Decachlorobiphenyl	8	7	**90** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124655**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-68**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**88**
Analyzed:	**06-25-11 02:05**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**140**	2C (130)*	ug/Kg	45
11096-82-5	Aroclor 1260	**96**	2C (58)*	ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	5	**65** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**69** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	5	**68** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**76** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124346**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-69**	QC Batch ID:	**PB-3765-X**
Sampled:	**06-14-11 12:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-28-11 18:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-30-11 00:00**	Percent Solids:	**94**
Analyzed:	**06-30-11 03:39**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**110**	1C (82)*	ug/Kg	42
11097-69-1	Aroclor 1254	**160**	1C (130)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	3	**44** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**50** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	3	**49** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**53** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124347**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-70**	QC Batch ID:	**PB-3765-X**
Sampled:	**06-14-11 12:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-28-11 18:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-30-11 00:00**	Percent Solids:	**95**
Analyzed:	**06-30-11 04:03**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**370**	1C (260)*	ug/Kg	42
11097-69-1	Aroclor 1254	**120**	2C (100)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	2	**26** % m	30 - 150 %
Column	Decachlorobiphenyl	7	2	**35** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	2	**29** % m	30 - 150 %
Column	Decachlorobiphenyl	7	3	**42** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124348**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-71**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**90**
Analyzed:	**06-25-11 04:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	44
11104-28-2	Aroclor 1221	BRL		ug/Kg	44
11141-16-5	Aroclor 1232	BRL		ug/Kg	44
53469-21-9	Aroclor 1242	BRL		ug/Kg	44
12672-29-6	Aroclor 1248	BRL		ug/Kg	44
11097-69-1	Aroclor 1254	**160**	2C (110)*	ug/Kg	44
11096-82-5	Aroclor 1260	**140**	p 2C (61)*	ug/Kg	44
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	44
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	44

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**79** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**82** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**87** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between primary and confirmation columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124349**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-72**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:33**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**94**
Analyzed:	**06-25-11 04:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**460**	e 2C (390)*	ug/Kg	42
11097-69-1	Aroclor 1254	**280**	1C (220)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**74** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**93** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**84** %	30 - 150 %
Column	Decachlorobiphenyl	7	7	**101** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeds calibration range for analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124349**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-72RA1**	QC Batch ID:	**PB-3760-X**
Sampled:	**06-14-11 12:33**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-21-11 13:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-24-11 15:00**	Percent Solids:	**94**
Analyzed:	**06-28-11 09:35**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**450**	1C (450)*	ug/Kg	210
11097-69-1	Aroclor 1254	**310**	1C (230)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**88** %	30 - 150 %
	Decachlorobiphenyl	7	7	**94** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**94** %	30 - 150 %
	Decachlorobiphenyl	7	7	**96** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124350**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-73**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**82**
Analyzed:	**06-27-11 14:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	48
11104-28-2	Aroclor 1221	BRL		ug/Kg	48
11141-16-5	Aroclor 1232	BRL		ug/Kg	48
53469-21-9	Aroclor 1242	BRL		ug/Kg	48
12672-29-6	Aroclor 1248	BRL		ug/Kg	48
11097-69-1	Aroclor 1254	BRL		ug/Kg	48
11096-82-5	Aroclor 1260	BRL		ug/Kg	48
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	48
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	48

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	5	**62** %	30 - 150 %
	Decachlorobiphenyl	8	6	**69** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	5	**61** %	30 - 150 %
	Decachlorobiphenyl	8	5	**68** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124351**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-74**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**92**
Analyzed:	**06-27-11 14:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	43
11104-28-2	Aroclor 1221	BRL		ug/Kg	43
11141-16-5	Aroclor 1232	BRL		ug/Kg	43
53469-21-9	Aroclor 1242	BRL		ug/Kg	43
12672-29-6	Aroclor 1248	BRL		ug/Kg	43
11097-69-1	Aroclor 1254	BRL		ug/Kg	43
11096-82-5	Aroclor 1260	BRL		ug/Kg	43
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	43
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	43

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	8	**105** %	30 - 150 %
	Decachlorobiphenyl	7	7	**98** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
	Decachlorobiphenyl	7	7	**101** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124352**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-75**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**96**
Analyzed:	**06-27-11 15:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	BRL		ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	4	**56** %	30 - 150 %
	Decachlorobiphenyl	7	5	**71** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	4	**56** %	30 - 150 %
	Decachlorobiphenyl	7	5	**71** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124353**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-76**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:15**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**96**
Analyzed:	**06-27-11 15:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	BRL		ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**80** %	30 - 150 %
	Decachlorobiphenyl	7	7	**96** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**82** %	30 - 150 %
	Decachlorobiphenyl	7	7	**98** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124354**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-77**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**95**
Analyzed:	**06-27-11 17:19**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**240**	2C (230)*	ug/Kg	42
11096-82-5	Aroclor 1260	**220**	p 2C (93)*	ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**85** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**96** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**92** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between primary and confirmation columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124355**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-78**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**97**
Analyzed:	**06-27-11 17:43**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**86**	2C (68)*	ug/Kg	41
11096-82-5	Aroclor 1260	**67**	2C (43)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**63** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**67** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124356**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-79**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:40**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 18:07**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**57**	2C (49)*	ug/Kg	40
11096-82-5	Aroclor 1260	**52**	2C (40)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**80** %	30 - 150 %
	Decachlorobiphenyl	7	5	**80** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
	Decachlorobiphenyl	7	7	**98** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124357**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-80**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:40**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 18:31**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	5	**79** %	30 - 150 %
	Decachlorobiphenyl	7	5	**73** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**85** %	30 - 150 %
	Decachlorobiphenyl	7	6	**90** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124358**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-81**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**99**
Analyzed:	**06-29-11 16:10**	Dilution Factor:	**25**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	1,000
11104-28-2	Aroclor 1221	BRL		ug/Kg	1,000
11141-16-5	Aroclor 1232	BRL		ug/Kg	1,000
53469-21-9	Aroclor 1242	BRL		ug/Kg	1,000
12672-29-6	Aroclor 1248	**6,300**	2C (4200)*	ug/Kg	1,000
11097-69-1	Aroclor 1254	BRL		ug/Kg	1,000
11096-82-5	Aroclor 1260	BRL		ug/Kg	1,000
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	1,000
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	1,000

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	na	d	30 - 150 %
Column	Decachlorobiphenyl	7	na	d	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	na	d	30 - 150 %
Column	Decachlorobiphenyl	7	na	d	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124359**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-82**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 13:50**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 19:18**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	**170**	1C (160)*	ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	**64**	2C (48)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**82** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**85** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124360**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-83**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**99**
Analyzed:	**06-27-11 19:42**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**99**	2C (84)*	ug/Kg	40
11096-82-5	Aroclor 1260	**110**	p 2C (53)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**66** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**57** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**67** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

p Greater than 40% difference between primary and confirmation columns.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124361**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-84**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 20:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**67**	2C (55)*	ug/Kg	41
11096-82-5	Aroclor 1260	**65**	2C (43)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**72** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**67** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**77** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**75** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124362**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-85**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**97**
Analyzed:	**06-27-11 20:30**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**81**	2C (76)*	ug/Kg	41
11096-82-5	Aroclor 1260	**85**	2C (69)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**75** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**71** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**80** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124363**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-86**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 20:54**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**110**	2C (67)*	ug/Kg	41
11096-82-5	Aroclor 1260	**84**	2C (56)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**77** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**81** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124364**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-87**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:30**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 22:29**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**63**	2C (46)*	ug/Kg	40
11096-82-5	Aroclor 1260	**53**	2C (38)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**72** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**73** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**72** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124365**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-88**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:35**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**97**
Analyzed:	**06-27-11 22:52**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**52**	2C (44)*	ug/Kg	41
11096-82-5	Aroclor 1260	**80**	2C (57)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**83** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**79** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**86** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124366**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-89**	QC Batch ID:	**PB-3761-X**
Sampled:	**06-14-11 14:52**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-22-11 03:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 18:00**	Percent Solids:	**98**
Analyzed:	**06-27-11 23:16**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**73**	1C (71)*	ug/Kg	40
11096-82-5	Aroclor 1260	**110**	2C (79)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**76** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**91** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124367**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-90**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-14-11 14:57**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**30 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**96**
Analyzed:	**06-28-11 06:01**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**90**	2C (55)*	ug/Kg	41
11096-82-5	Aroclor 1260	**76**	2C (51)*	ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**98** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**86** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124368**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-91**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-14-11 15:05**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**98**
Analyzed:	**06-28-11 06:25**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**69**	2C (46)*	ug/Kg	40
11096-82-5	Aroclor 1260	**52**	2C (39)*	ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**94** %	30 - 150 %
Column	Decachlorobiphenyl	7	6	**83** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124369**	Matrix:	**Soil**
Project:	**EH&E/17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-92**	QC Batch ID:	**PB-3762-X**
Sampled:	**06-14-11 15:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**31 g**
Extracted:	**06-23-11 20:30**	Final Volume:	**1 mL**
Cleaned Up:	**06-25-11 20:00**	Percent Solids:	**97**
Analyzed:	**06-28-11 06:48**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**56** %	30 - 150 %
Column	Decachlorobiphenyl	7	3	**51** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**62** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**57** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124370**	Matrix:	**Aqueous**
Project:	**EH&E/17228**	Container:	**1 L Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-93**	QC Batch ID:	**PB-2696-F**
Sampled:	**06-14-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**870 mL**
Extracted:	**06-16-11 22:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-18-11 01:00**	Dilution Factor:	**1**
Analyzed:	**06-20-11 19:34**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.23	0.59	**257** % m	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.28	**122** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.23	0.32	**141** %	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.19	**84** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:
BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

m Surrogate recovery outside recommended limits due to sample matrix interference.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**124371**	Matrix:	**Aqueous**
Project:	**EH&E/17228**	Container:	**1 L Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**142678-94**	QC Batch ID:	**PB-2696-F**
Sampled:	**06-14-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**06-15-11 19:15**	Sample Weight:	**870 mL**
Extracted:	**06-16-11 22:00**	Final Volume:	**1 mL**
Cleaned Up:	**06-18-11 01:00**	Dilution Factor:	**1**
Analyzed:	**06-20-11 19:58**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.23	0.33	**146** %	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.17	**75** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.23	0.22	**95** %	30 - 150 %
Column	Decachlorobiphenyl	0.23	0.17	**73** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**EH&E/17228**	Lab ID:	**142678**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**06-15-11 19:15**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. 124613 through 142621 had sample dates on the chain of custody as 6/14/11. Same samples had dates of 6/13/11 on containers. Samples logged in as sampled on 6/13/11 per Karrie-Ann Myer.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 8082 Non-conformance: Sample 142678-81. Sample did not have measureable surrogate recoveries due to required sample dilution.
2. EPA 8082 Non-conformance: Samples 142678-19, -21 -29, -30, -32, -34, -35, -36, -39, -40, -55, -60, -64, -65, -72 . Reported results for selected analytes exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.
3. EPA 8082 Note: Samples 142678-35 through -39, -41, -42, -43, -45, -46, -60, -64, -65, -72, -81. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration. Elevated reporting limits are above CAM recommended reporting limits.
4. EPA 8082 Non-conformance: Samples 142678-70, -93. Samples had surrogate recoveries outside recommended limits due to sample matrix interference.
5. EPA 8082 Non-conformance: Samples 142678-71, -77, -83. Samples had analyte concentration with greater than 40% difference between the primary and confirmation columns.
6. EPA 8082 Note: Sample 142678-81. Sample had extreme weathering of heavy end of Aroclor 1248 pattern.
7. EPA 8082 Non-conformance: Samples 142678-03, -04, -07, -08, -37, -38, -41, -42, -45, -46. Matrix spike and matrix spike duplicate samples had analyte recoveries above recommended limits due to the presence of multiple Aroclors native to the samples.
8. EPA 8082 Note: Samples 142678-01, -02, -05, 09, -19, -21, -22, -25 through -36, -40, -44, -47, -49, -50 through -92. Weighted average used to calculate concentrations, due to multiple Aroclors and non-target matrix interference.

COC 1 of 6

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/13/2011

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Groundwater Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124581	S Bulk soil	PCB 8082 w/ Soxlet Extraction	0755 / 6/13/2011
124582	D		
124583	MS/MSD	parent sample: 124581	
124584	S		
124585	D		
124586	MS/MSD	parent: 124584	
124587	S		0810 / 6/13/2011
124588	D		
124589	MS/MSD	parent: 124587	
124590	S		0810 / 6/13/2011
124591	D		
124592	MS/MSD	parent: 124590	
124593	S		0830 / 6/13/2011
124594	S		0830 6/13/2011
124595	S		0845 6/13/2011
124596	S		0845 6/13/2011

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

2.8°C ☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient crampisano@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 6/14/11

Received by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Relinquished by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11 13:2

Received by: _____ of (company name) GWA Date: 6/15/11 1915

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data Received by: _____ of Environmental Health & Engineering, Inc., Date: _____

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/13/2011

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Groundwater Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

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For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124597	S Bulk	PCB 8082 w/ Soxlet Extraction	0850 6/13/2011
124598	S soil		0855
124599	S		0857
124600	S		0859
124601	S		0906
124602	S		0908
124603	S		0922
124604	S		0924
124605	S		0949
124606	S		0958
124607	S		1000
124608	S		1003
124609	S		1006
124610	S		1008
124611	S		1023
124612	D		1023 6/13/2011

Special instructions:

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☐ Fax results 781-247-4305

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☐ Additional report recipient _____

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Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 6/14/11

Received by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Relinquished by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Received by: _____ of (company name) GWA Date: 6/15/11

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/14/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GWA

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124613	MS/MSD	Bulk soil parent: 124611 EPA 8082	1023 - 6/14/11
124614	S	Soxhlet extr.	1024
124615	D		1024
124616	MS/MSD	parent: 124614	1028
124617	S		1028
124618	D		1045
124619	MS/MSD	parent: 124617	1045
124620	S		1045
124621	S		1048
~~124622~~	~~D~~	VOID	~~1048~~
~~124623~~	~~MS/MSD~~	parent: 124621 VOID	~~1048~~
124624	S		1057
~~124625~~	~~D~~	VOID	~~1057~~
~~124626~~	~~MS/MSD~~	parent: 124624 VOID	~~1057~~
124627	S		1100
124628	S		1126

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

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☐ Additional report recipient _____

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Received by: Alan Maddigan of (company name) Groundwater a. Date: 6/15/11

Relinquished by: Alan Maddigan of (company name) Groundwater a. Date: 6/15/11

Received by: _____ of (company name) GWA Date: 6/15/1

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/14/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GWA

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124631	Bulk soil	EPA 8082 (PCBs)	1130 6/13/11
124634		Soxhlet extr.	1134
124637			1137
124640			1143
124643			1010 6/14/11
124644			1020
124645			1035
124646			1045
124647			1050
124648			1105
124649			1100
124650			1110
124651			1120
124652			1130
124653			1145
124654			1157

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

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☐ Additional report recipient _____

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Received by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Relinquished by: Alan Maddigan of (company name) Groundwater A. Date: 6/15/11

Received by: _____ of (company name) GWA Date: 6/15/11

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 4 of 6

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/14/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GWA

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124655	Bulk-soil	EPA 8082 - (PCBS)	1215 6/14/11
124346		soxhlet extr.	1215
124347			1225
124348			1225
124349			1233
124350			1305
124351			1305
124352			1315
124353			1315
124354			1330
124355			1330
124356			1340
124357			1340
124358			1350
124359			1350
124360			1405

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

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☐ Additional report recipient _____

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 6/14/11

Received by: Alan Maddigan of (company name) Groundwater a. Date: 6/15/11

Relinquished by: Alan Maddigan of (company name) Groundwater a. Date: 6/15/11

Received by: _____ of (company name) GWA Date: 6/15/11

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 6/14/11

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GWA

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17228

The cost of this analysis will be covered by EH&E Purchase Order # 1002033

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
124361	Bulk-Soil	EPA 8082 - (PCBs)	1405 6/14/11
124362	↓	Soxhlet extr.	1425 ↓
124363		↓	1425
124364			1430
124365			1435
124366			1452
124367			1457
124368			1505
124369	↓	↓	1510 ↓
124370	Water	EPA 8082 - PCBs	1400 6/14/11
124371	↓	soxhlet extr.	1400 ↓

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

2.8°C ☐ **RETURN SAMPLES** ☐ Electronic transfer - datacoordinator@eheinc.com

☐ Additional report recipient _____

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 6/14/11

Received by: Alan Maddigan of (company name) Groundwater a Date: 6/15/11

Relinquished by: Alan Maddigan of (company name) Groundwater a Date: 6/15/11

Received by: _____ of (company name) GWA Date: 6/15/1

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3762-X**	Extracted:	**06-23-11 20:30**	Extracted:	**06-23-11 20:30**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 20:00**	Cleaned Up:	**06-25-11 20:00**
Units:	**ug/Kg**	Analyzed:	**06-28-11 00:04**	Analyzed:	**06-28-11 00:28**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	170	170	**101%**	**105%**	170	160	160	**93%**	**95%**	**7 %**	**10 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	180	**101%**	**108%**	170	170	180	**104%**	**110%**	**3 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	6.7	6.7	6.8	**101%**	**102%**	6.7	5.8	5.9	**88%**	**89%**	30 - 150 %
Decachlorobiphenyl	6.7	5.9	6.4	**89%**	**96%**	6.7	6.1	6.5	**92%**	**98%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3762-X**	Extracted:	**06-23-11 20:30**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 20:00**
		Analyzed:	**06-27-11 23:40**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	5.9	**88** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.9	**103** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	6.2	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-11 Agilent 6890**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3757-X**	Extracted:	**06-16-11 14:15**	Extracted:	**06-16-11 14:15**
Matrix:	**Soil**	Cleaned Up:	**06-20-11 21:00**	Cleaned Up:	**06-20-11 21:00**
Units:	**ug/Kg**	Analyzed:	**06-21-11 10:34**	Analyzed:	**06-21-11 10:57**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	150	140	**90%**	**85%**	170	160	150	**94%**	**92%**	**4 %**	**7 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	160	150	**97%**	**89%**	170	170	160	**102%**	**96%**	**5 %**	**8 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	6.7	5.2	5	**79%**	**75%**	6.7	5.4	5.2	**82%**	**78%**	30 - 150 %
Decachlorobiphenyl	6.7	6.5	6.2	**97%**	**92%**	6.7	6.5	6.6	**98%**	**99%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3757-X**	Extracted:	**06-16-11 14:15**
Matrix:	**Soil**	Cleaned Up:	**06-20-11 21:00**
		Analyzed:	**06-21-11 10:10**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	5.6	**85** %	30 - 150 %
	Decachlorobiphenyl	6.7	6	**91** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	5.4	**82** %	30 - 150 %
	Decachlorobiphenyl	6.7	6.7	**101** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-11 Agilent 6890**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3758-X**	Extracted:	**06-16-11 17:30**	Extracted:	**06-16-11 17:30**
Matrix:	**Soil**	Cleaned Up:	**06-21-11 23:00**	Cleaned Up:	**06-21-11 23:00**
Units:	**ug/Kg**	Analyzed:	**06-22-11 02:13**	Analyzed:	**06-22-11 02:36**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	180	160	**109%**	**98%**	170	170	160	**104%**	**97%**	**5 %**	**1 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	180	170	**109%**	**105%**	170	170	170	**102%**	**104%**	**7 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	6.7	6	5.5	**91%**	**83%**	6.7	6	5.6	**91%**	**84%**	30 - 150 %
Decachlorobiphenyl	6.7	6.1	7.1	**91%**	**106%**	6.7	6	7	**91%**	**105%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-11 Agilent 6890**
QC Batch ID:	**PB-3758-X**	Extracted:	**06-16-11 17:30**
Matrix:	**Soil**	Cleaned Up:	**06-21-11 23:00**
		Analyzed:	**06-22-11 01:49**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	6.1	**92** %	30 - 150 %
	Decachlorobiphenyl	6.7	6.2	**94** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	5.8	**87** %	30 - 150 %
	Decachlorobiphenyl	6.7	6.9	**104** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Sample

Category:	**EPA Method 608 PCBs**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-2696-F**	Extracted:	**06-16-11 22:00**
Matrix:	**Aqueous**	Cleaned Up:	**06-18-11 01:00**
Units:	**ug/L**	Analyzed:	**06-20-11 15:12**
		Analyst:	**CRL**

CAS Number	Analyte	Spiked	Measured		Recovery		QC Limits
			1st Column	2nd Column	1st Column	2nd Column	
12674-11-2	Aroclor 1016	5.0	4.9	4.7	**99** %	**93** %	40 - 140 %
11096-82-5	Aroclor 1260	5.0	4.8	4.7	**96** %	**94** %	40 - 140 %

QC Surrogate Compound	Spiked	Measured		Recovery		QC Limits
Tetrachloro-*m*-xylene	0.20	0.18	0.17	**91** %	**87** %	30 - 150 %
Decachlorobiphenyl	0.20	0.16	0.16	**81** %	**81** %	30 - 150 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986). Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 608 PCBs**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-2696-F**	Extracted:	**06-16-11 22:00**
Matrix:	**Aqueous**	Cleaned Up:	**06-18-11 01:00**
		Analyzed:	**06-20-11 14:48**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.20
11104-28-2	Aroclor 1221	BRL		ug/L	0.20
11141-16-5	Aroclor 1232	BRL		ug/L	0.20
53469-21-9	Aroclor 1242	BRL		ug/L	0.20
12672-29-6	Aroclor 1248	BRL		ug/L	0.20
11097-69-1	Aroclor 1254	BRL		ug/L	0.20
11096-82-5	Aroclor 1260	BRL		ug/L	0.20

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	0.20	0.18	**89** %	30 - 150 %
	Decachlorobiphenyl	0.20	0.15	**77** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	0.20	0.17	**86** %	30 - 150 %
	Decachlorobiphenyl	0.20	0.15	**76** %	30 - 150 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986). Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3765-X**	Extracted:	**06-28-11 18:00**	Extracted:	**06-28-11 18:00**
Matrix:	**Soil**	Cleaned Up:	**06-30-11 00:00**	Cleaned Up:	**06-30-11 00:00**
Units:	**ug/Kg**	Analyzed:	**06-30-11 02:27**	Analyzed:	**06-30-11 02:51**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	180	170	**108%**	**103%**	170	170	160	**101%**	**99%**	**7 %**	**4 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	170	**102%**	**104%**	170	170	170	**100%**	**103%**	**2 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	6.7	6.9	6.9	**103%**	**104%**	6.7	6.5	6.4	**98%**	**96%**	30 - 150 %
Decachlorobiphenyl	6.7	5.8	6	**88%**	**90%**	6.7	5.6	5.9	**85%**	**89%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3765-X**	Extracted:	**06-28-11 18:00**
Matrix:	**Soil**	Cleaned Up:	**06-30-11 00:00**
		Analyzed:	**06-30-11 02:04**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	7	**106** %	30 - 150 %
	Decachlorobiphenyl	6.7	5.8	**86** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	7	**105** %	30 - 150 %
	Decachlorobiphenyl	6.7	6	**90** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3760-X**	Extracted:	**06-21-11 13:30**	Extracted:	**06-21-11 13:30**
Matrix:	**Soil**	Cleaned Up:	**06-24-11 15:00**	Cleaned Up:	**06-24-11 15:00**
Units:	**ug/Kg**	Analyzed:	**06-24-11 18:10**	Analyzed:	**06-24-11 18:34**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	160	160	**98%**	**98%**	170	150	160	**92%**	**94%**	**7 %**	**5 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	170	**102%**	**104%**	170	170	170	**100%**	**103%**	**2 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	6.7	6.2	6.1	**93%**	**92%**	6.7	5.3	5.3	**80%**	**80%**		30 - 150 %
Decachlorobiphenyl	6.7	6.3	6.6	**95%**	**100%**	6.7	6.2	6.6	**94%**	**99%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3760-X**	Extracted:	**06-21-11 13:30**
Matrix:	**Soil**	Cleaned Up:	**06-24-11 15:00**
		Analyzed:	**06-24-11 17:46**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	5.4	**82** %	30 - 150 %
	Decachlorobiphenyl	6.7	5.9	**89** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	5.4	**81** %	30 - 150 %
	Decachlorobiphenyl	6.7	6.2	**93** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3761-X**	Extracted:	**06-22-11 03:00**	Extracted:	**06-22-11 03:00**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 18:00**	Cleaned Up:	**06-25-11 18:00**
Units:	**ug/Kg**	Analyzed:	**06-27-11 12:19**	Analyzed:	**06-27-11 12:43**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	140	150	**87%**	**88%**	170	170	170	**102%**	**101%**	**17 %**	**15 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	160	160	**95%**	**98%**	170	170	170	**101%**	**105%**	**6 %**	**7 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	6.7	5.2	5.3	**79%**	**80%**	6.7	6.5	6.6	**98%**	**99%**	30 - 150 %
Decachlorobiphenyl	6.7	5.9	6.2	**89%**	**93%**	6.7	6.2	6.4	**93%**	**97%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3761-X**	Extracted:	**06-22-11 03:00**
Matrix:	**Soil**	Cleaned Up:	**06-25-11 18:00**
		Analyzed:	**06-27-11 11:55**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	6.1	**92** %	30 - 150 %
	Decachlorobiphenyl	6.7	6.1	**91** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	6.4	**96** %	30 - 150 %
	Decachlorobiphenyl	6.7	6.2	**94** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

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† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS — **Department of Environmental Protection, M-MA-103**

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

July 19, 2011

Ms. Cindy Campisano
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

LABORATORY REPORT

Project: **17228**
Lab ID: **143394**
Received: **07-14-11**

Dear Cindy:

Enclosed are the analytical results for the above referenced project. The project was processed for Rush 48 Hour turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/ker

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **143394**

Delivery: **Hand**
Airbill: **n/a**
Lab Receipt: **07-14-11**

Temperature: **5.7ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-1	125376-SF17		Soil	7/13/11 12:10	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028751	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-2	125377-SF19A		Soil	7/13/11 12:19	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028760	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-3	125378-SF19B		Soil	7/13/11 12:32	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028767	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-4	125379-SF21A		Soil	7/13/11 12:44	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028768	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-5	125380-SF21B		Soil	7/13/11 12:34	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028759	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-6	125381-SF22A		Soil	7/13/11 13:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028753	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-7	125382-SF22A-D		Soil	7/13/11 13:23	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028740	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-8	125383-SF22B		Soil	7/13/11 13:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028758	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-9	125384-SF22B-MS		Soil	7/13/11 13:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028739	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-10	125386-SF23A		Soil	7/13/11 13:45	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028761	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-11	125387-SF23B		Soil	7/13/11 13:39	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028766	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **17228**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **143394**

Delivery: **Hand**
Airbill: **n/a**
Lab Receipt: **07-14-11**

Temperature: **5.7ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-12	125388-SF7A		Soil	7/13/11 14:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028752	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-13	125385-SF22B-MSD		Soil	7/13/11 13:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028741	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-14	125389-SF7B		Soil	7/13/11 13:52	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028750	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-15	125390-SF33A		Soil	7/13/11 14:18	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028769	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-16	125391-SF33B		Soil	7/13/11 14:20	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028749	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-17	125392-SF53A		Soil	7/13/11 14:43	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028762	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-18	125393-SF53B		Soil	7/13/11 14:48	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028765	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-19	125394-SF53A-MS		Soil	7/13/11 14:43	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028743	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-20	125395-SF53A-MSD		Soil	7/13/11 14:43	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028744	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-21	125396-SF53B-D		Soil	7/13/11 14:48	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028742	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-22	125397-SF36		Soil	7/13/11 15:25	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028754	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project:	**17228**	Delivery:	**Hand**	Temperature:	**5.7ºC**
Client:	**Environmental Health & Engineering, Inc.**	Airbill:	**n/a**	Chain of Custody:	**Present**
Lab ID:	**143394**	Lab Receipt:	**07-14-11**	Custody Seal(s):	**n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143394-23	125398-SF38		Soil	7/13/11 15:36	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028757	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project: #### Lab ID: **143394**
Client: **Environmental Health & Engineering, Inc.** Received: **07-14-11 10:50**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8082: 143394-1,-2,-3,-4,-5,-6,-7,-8,-9,-10,-11,-12,-13,-14,-15,-16,-17,-18,-19,-20,-21,-22,-23

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC CAM II A ( )	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	n/a
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	No

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Karyn E. Raymond Position: Project Manager

Printed Name: Karyn E. Raymond Date: 07-19-11

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125376-SF17**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-01**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:10**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**74**
Analyzed:	**07-16-11 03:53**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	54
11104-28-2	Aroclor 1221	BRL		ug/Kg	54
11141-16-5	Aroclor 1232	BRL		ug/Kg	54
53469-21-9	Aroclor 1242	BRL		ug/Kg	54
12672-29-6	Aroclor 1248	BRL		ug/Kg	54
11097-69-1	Aroclor 1254	**140**	2C (130)*	ug/Kg	54
11096-82-5	Aroclor 1260	BRL		ug/Kg	54
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	54
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	54

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	9	8	**85** %	30 - 150 %
Column	Decachlorobiphenyl	9	6	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	9	10	**109** %	30 - 150 %
Column	Decachlorobiphenyl	9	7	**75** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125377-SF19A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-02**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:19**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**77**
Analyzed:	**07-16-11 04:17**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	52
11104-28-2	Aroclor 1221	BRL		ug/Kg	52
11141-16-5	Aroclor 1232	BRL		ug/Kg	52
53469-21-9	Aroclor 1242	BRL		ug/Kg	52
12672-29-6	Aroclor 1248	BRL		ug/Kg	52
11097-69-1	Aroclor 1254	**74**	1C (59)*	ug/Kg	52
11096-82-5	Aroclor 1260	BRL		ug/Kg	52
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	52
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	52

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	9	8	**94** %	30 - 150 %
	Decachlorobiphenyl	9	6	**65** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	9	9	**104** %	30 - 150 %
	Decachlorobiphenyl	9	6	**69** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125378-SF19B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-03**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:32**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**88**
Analyzed:	**07-16-11 04:41**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**250**	1C (220)*	ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**94** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**71** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125379-SF21A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-04**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:44**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**87**
Analyzed:	**07-16-11 05:04**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	BRL		ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**74** %	30 - 150 %
	Decachlorobiphenyl	8	4	**53** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**82** %	30 - 150 %
	Decachlorobiphenyl	8	4	**55** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125380-SF21B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-05**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 12:34**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-16-11 05:28**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**63**	1C (60)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**67** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**58** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**71** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**58** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125381-SF22A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-06**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**87**
Analyzed:	**07-16-11 05:51**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	BRL		ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**91** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**69** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**96** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**65** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125382-SF22A-D**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-07**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:23**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**86**
Analyzed:	**07-16-11 06:15**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	46
11104-28-2	Aroclor 1221	BRL		ug/Kg	46
11141-16-5	Aroclor 1232	BRL		ug/Kg	46
53469-21-9	Aroclor 1242	BRL		ug/Kg	46
12672-29-6	Aroclor 1248	BRL		ug/Kg	46
11097-69-1	Aroclor 1254	BRL		ug/Kg	46
11096-82-5	Aroclor 1260	BRL		ug/Kg	46
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	46
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	46

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	8	6	**76** %	30 - 150 %
	Decachlorobiphenyl	8	5	**64** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	8	6	**84** %	30 - 150 %
	Decachlorobiphenyl	8	5	**63** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125383-SF22B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-08**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-16-11 07:49**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	**920**	e 2C (610)*	ug/Kg	42
11097-69-1	Aroclor 1254	**520**	e 1C (410)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**95** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125383-SF22B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-08RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-18-11 10:49**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	**1000**	2C (630)*	ug/Kg	210
11097-69-1	Aroclor 1254	**430**	2C (420)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**96** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	8	**111** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**72** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**12583-SF-22B**	Laboratory ID:	**143394-8**	**143394-9**	**143394-13**
Project:	**17228**	Sampled:	**07-13-11 13:25**	**07-13-11 13:25**	**07-13-11 13:25**
Client:	**Environmental Health & Engineering**	Received:	**07-14-11 10:50**	**07-14-11 10:50**	**07-14-11 10:50**
Matrix:	**Soil**	Extracted:	**07-14-11 21:00**	**07-14-11 21:00**	**07-14-11 21:00**
Container:	**250 mL Glass**	Cleaned Up:	**07-15-11 22:00**	**07-15-11 22:00**	**07-15-11 22:00**
Preservation:	**Cool**	Analyzed:	**07-16-11 07:49**	**07-16-11 08:13**	**07-16-11 08:37**
		Analyst:	**CRL**	**CRL**	**CRL**
		QC Batch ID:	**PB-3770-X**	**PB-3770-X**	**PB-3770-X**
		Instrument ID:	**GC-13 HP 6890**	**GC-6 HP 5890**	**GC-6 HP 5890**
		Sample Weight:	**30g**	**30g**	**30g**
		Final Volume:	**1 mL**	**1 mL**	**1 mL**
		Percent Solids:	**95**	**94**	**95**
		Dilution Factor:	**1**	**1**	**1**

CAS Number	Analyte	Unspiked Sample (ug/Kg)	MS Spiked (ug/Kg)	MS Measured 1st Col (ug/Kg)	MS Measured 2nd Col (ug/Kg)	MS Recovery 1st Col	MS Recovery 2nd Col	MSD Spiked (ug/Kg)	MSD Measured 1st Col (ug/Kg)	MSD Measured 2nd Col (ug/Kg)	MSD Recovery 1st Col	MSD Recovery 2nd Col	RPD 1st Col	RPD 2nd Col	QC Lim Spike
12674-11-2	Aroclor 1016	BRL	170	360	370	**210 %** s	**214 %** s	170	420	400	**248 %** s	**234 %** s	**16 %**	**8 %**	40 - 140%
11096-82-5	Aroclor 1260	BRL	170	250	380	**147 %** s	**219 %** s	170	270	390	**157 %** s	**229 %** s	**6 %**	**3 %**	40 - 140%

QC Surrogate Compound	Surrogate Recovery												QC Lim
Tetrachloro-*m*-xylene	**96%**	7	6	7	**81%**	**97%**	7	7	6	**99%**	**93%**		30 - 150
Decachlorobiphenyl	**74%**	7	4	5	**63%**	**67%**	7	5	5	**67%**	**68%**		30 - 150

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

s Recovery outside recommended limits due to high concentration of analyte native to sample.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125386-SF23A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-10**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:45**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**88**
Analyzed:	**07-16-11 09:00**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	45
11104-28-2	Aroclor 1221	BRL		ug/Kg	45
11141-16-5	Aroclor 1232	BRL		ug/Kg	45
53469-21-9	Aroclor 1242	BRL		ug/Kg	45
12672-29-6	Aroclor 1248	BRL		ug/Kg	45
11097-69-1	Aroclor 1254	**70**	1C (53)*	ug/Kg	45
11096-82-5	Aroclor 1260	BRL		ug/Kg	45
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	45
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	45

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	8	**101** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	8	**108** %	30 - 150 %
Column	Decachlorobiphenyl	8	6	**73** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125387-SF23B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-11**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:39**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**96**
Analyzed:	**07-16-11 09:24**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	**300**	2C (270)*	ug/Kg	41
11097-69-1	Aroclor 1254	**220**	1C (170)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125388-SF7A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-12**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**95**
Analyzed:	**07-16-11 09:48**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**97**	1C (80)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**95** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**73** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125389-SF7B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-14**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 13:52**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**98**
Analyzed:	**07-16-11 10:11**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	**100**	1C (75)*	ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**81** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**74** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**92** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**75** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125390-SF33A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-15**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:18**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**84**
Analyzed:	**07-16-11 10:35**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	47
11104-28-2	Aroclor 1221	BRL		ug/Kg	47
11141-16-5	Aroclor 1232	BRL		ug/Kg	47
53469-21-9	Aroclor 1242	BRL		ug/Kg	47
12672-29-6	Aroclor 1248	BRL		ug/Kg	47
11097-69-1	Aroclor 1254	**1700**	e 2C (1400)*	ug/Kg	47
11096-82-5	Aroclor 1260	BRL		ug/Kg	47
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	47
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	47

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	6	**78** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**60** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	7	**84** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**62** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125390-SF33A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-15RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:18**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**84**
Analyzed:	**07-18-11 11:12**	Dilution Factor:	**10**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	470
11104-28-2	Aroclor 1221	BRL		ug/Kg	470
11141-16-5	Aroclor 1232	BRL		ug/Kg	470
53469-21-9	Aroclor 1242	BRL		ug/Kg	470
12672-29-6	Aroclor 1248	BRL		ug/Kg	470
11097-69-1	Aroclor 1254	**1400**	2C (1300)*	ug/Kg	470
11096-82-5	Aroclor 1260	BRL		ug/Kg	470
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	470
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	470

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	8	7	**93** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**57** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	8	8	**102** %	30 - 150 %
Column	Decachlorobiphenyl	8	5	**60** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125391-SF33B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-16**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**93**
Analyzed:	**07-16-11 10:59**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	42
11104-28-2	Aroclor 1221	BRL		ug/Kg	42
11141-16-5	Aroclor 1232	BRL		ug/Kg	42
53469-21-9	Aroclor 1242	BRL		ug/Kg	42
12672-29-6	Aroclor 1248	BRL		ug/Kg	42
11097-69-1	Aroclor 1254	**920**	e 2C (830)*	ug/Kg	42
11096-82-5	Aroclor 1260	BRL		ug/Kg	42
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	42
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	42

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**79** %	30 - 150 %
	Decachlorobiphenyl	7	5	**69** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**88** %	30 - 150 %
	Decachlorobiphenyl	7	5	**76** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125391-SF33B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-16RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 14:20**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**93**
Analyzed:	**07-18-11 11:36**	Dilution Factor:	**5**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	210
11104-28-2	Aroclor 1221	BRL		ug/Kg	210
11141-16-5	Aroclor 1232	BRL		ug/Kg	210
53469-21-9	Aroclor 1242	BRL		ug/Kg	210
12672-29-6	Aroclor 1248	BRL		ug/Kg	210
11097-69-1	Aroclor 1254	**900**	2C (850)*	ug/Kg	210
11096-82-5	Aroclor 1260	BRL		ug/Kg	210
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	210
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	210

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	7	**94** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**68** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**103** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**71** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125392-SF53A**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-17**	QC Batch ID:	**PB-3771-X**
Sampled:	**07-13-11 14:43**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 20:00**	Percent Solids:	**97**
Analyzed:	**07-16-11 14:32**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**100**	1C (95)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**94** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**59** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**66** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
EPA Method 8082

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**12583-SF-53A**	Laboratory ID:	**143394-17**	**143394-19**	**143394-20**
Project:	**17228**	Sampled:	**07-13-11 14:48**	**07-13-11 13:25**	**07-13-11 13:25**
Client:	**Environmental Health & Engineering**	Received:	**07-14-11 10:50**	**07-14-11 10:50**	**07-14-11 10:50**
Matrix:	**Soil**	Extracted:	**07-14-11 21:00**	**07-14-11 21:00**	**07-14-11 21:00**
Container:	**250 mL Glass**	Cleaned Up:	**07-15-11 22:00**	**07-15-11 22:00**	**07-15-11 22:00**
Preservation:	**Cool**	Analyzed:	**07-16-11 14:32**	**07-16-11 15:19**	**07-16-11 15:43**
		Analyst:	**CRL**	**CRL**	**CRL**
		QC Batch ID:	**PB-3770-X**	**PB-3770-X**	**PB-3770-X**
		Instrument ID:	**GC-13 HP 6890**	**GC-6 HP 5890**	**GC-6 HP 5890**
		Sample Weight:	**30g**	**30g**	**30g**
		Final Volume:	**1 mL**	**1 mL**	**1 mL**
		Percent Solids:	**98**	**94**	**95**
		Dilution Factor:	**1**	**1**	**1**

CAS Number	Analyte	Unspiked Sample (ug/Kg)	MS Spiked (ug/Kg)	MS Measured 1st Col (ug/Kg)	MS Measured 2nd Col (ug/Kg)	MS Recovery 1st Col	MS Recovery 2nd Col	MSD Spiked (ug/Kg)	MSD Measured 1st Col (ug/Kg)	MSD Measured 2nd Col (ug/Kg)	MSD Recovery 1st Col	MSD Recovery 2nd Col	RPD 1st Col	RPD 2nd Col	QC Lim Spike
12674-11-2	Aroclor 1016	BRL	170	210	210	**120 %**	**124 %**	170	170	190	**101 %**	**109 %**	**18 %**	**13 %**	40 - 140%
11096-82-5	Aroclor 1260	BRL	170	240	300	**137 %**	**176 %** q	170	200	270	**119 %**	**157 %** q	**15 %**	**12 %**	40 - 140%

QC Surrogate Compound	Surrogate Recovery											QC Lim
Tetrachloro-*m*-xylene	**94%**	7	7	8	**107%**	**116%**	7	6	7	**84%**	**97%**	30 - 150
Decachlorobiphenyl	**59%**	7	4	5	**61%**	**71%**	7	3	4	**50%**	**58%**	30 - 150

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3545. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

q Recovery outside recommended limits.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125393-SF53B**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-18**	QC Batch ID:	**PB-3771-X**
Sampled:	**07-13-11 14:48**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 20:00**	Percent Solids:	**98**
Analyzed:	**07-16-11 14:55**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	41
11104-28-2	Aroclor 1221	BRL		ug/Kg	41
11141-16-5	Aroclor 1232	BRL		ug/Kg	41
53469-21-9	Aroclor 1242	BRL		ug/Kg	41
12672-29-6	Aroclor 1248	BRL		ug/Kg	41
11097-69-1	Aroclor 1254	BRL		ug/Kg	41
11096-82-5	Aroclor 1260	BRL		ug/Kg	41
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	41
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	41

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
	Decachlorobiphenyl	7	4	**57** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	7	**99** %	30 - 150 %
	Decachlorobiphenyl	7	4	**63** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125396-SF53B-D**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-21**	QC Batch ID:	**PB-3771-X**
Sampled:	**07-13-11 14:48**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**31 g**
Extracted:	**07-14-11 21:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 20:00**	Percent Solids:	**98**
Analyzed:	**07-16-11 16:06**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**92** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**59** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	7	**104** %	30 - 150 %
Column	Decachlorobiphenyl	7	5	**67** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125397-SF36**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-22**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 15:25**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**74**
Analyzed:	**07-16-11 11:22**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	53
11104-28-2	Aroclor 1221	BRL		ug/Kg	53
11141-16-5	Aroclor 1232	BRL		ug/Kg	53
53469-21-9	Aroclor 1242	BRL		ug/Kg	53
12672-29-6	Aroclor 1248	BRL		ug/Kg	53
11097-69-1	Aroclor 1254	**270**	1C (270)*	ug/Kg	53
11096-82-5	Aroclor 1260	BRL		ug/Kg	53
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	53
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	53

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	9	7	**81** %	30 - 150 %
Column	Decachlorobiphenyl	9	6	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	9	8	**96** %	30 - 150 %
Column	Decachlorobiphenyl	9	7	**80** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125398-SF38**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-23**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 15:36**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**64**
Analyzed:	**07-16-11 11:46**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	63
11104-28-2	Aroclor 1221	BRL		ug/Kg	63
11141-16-5	Aroclor 1232	BRL		ug/Kg	63
53469-21-9	Aroclor 1242	BRL		ug/Kg	63
12672-29-6	Aroclor 1248	BRL		ug/Kg	63
11097-69-1	Aroclor 1254	**430**	e 1C (410)*	ug/Kg	63
11096-82-5	Aroclor 1260	BRL		ug/Kg	63
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	63
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	63

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	10	7	**66** %	30 - 150 %
Column	Decachlorobiphenyl	10	7	**70** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	10	10	**91** %	30 - 150 %
Column	Decachlorobiphenyl	10	7	**69** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

e Indicates concentration exceeded calibration range for the analyte.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125398-SF38**	Matrix:	**Soil**
Project:	**17228**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143394-23RA1**	QC Batch ID:	**PB-3770-X**
Sampled:	**07-13-11 15:36**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-14-11 10:50**	Sample Weight:	**30 g**
Extracted:	**07-14-11 21:00**	Final Volume:	**1 mL**
Cleaned Up:	**07-15-11 22:00**	Percent Solids:	**64**
Analyzed:	**07-18-11 13:20**	Dilution Factor:	**2**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	130
11104-28-2	Aroclor 1221	BRL		ug/Kg	130
11141-16-5	Aroclor 1232	BRL		ug/Kg	130
53469-21-9	Aroclor 1242	BRL		ug/Kg	130
12672-29-6	Aroclor 1248	BRL		ug/Kg	130
11097-69-1	Aroclor 1254	**430**	2C (420)*	ug/Kg	130
11096-82-5	Aroclor 1260	BRL		ug/Kg	130
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	130
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	130

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	10	10	**94** %	30 - 150 %
Column	Decachlorobiphenyl	10	8	**73** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	10	10	**100** %	30 - 150 %
Column	Decachlorobiphenyl	10	7	**66** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.
Results are reported on a dry weight basis.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

2C Concentration reported from second column.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**17228**	Lab ID:	**143394**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**07-14-11 10:50**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1 . No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1 . EPA 8082 Non-conformance: Samples 143394-08, -15, -16, -23. Reported results for selected analyte exceeded the high standard of the associated calibration curve. Results are estimated. Sample was reanalyzed and reported with all analytes within calibration.

2 . EPA 8082 Note: Samples 143394-08,- 15, -16, -23. Sample were diluted prior to analysis. Dilution was required to keep all target analytes within calibration.

3 . EPA 8082 Non-conformance: Sample 143394-8. Matrix spike recovery was above recommend limits due to high concentration of analyte native to the sample.

4 . EPA 8082 Note: Sample 143394-17. Matrix spike recovery was above recommend limits on the second column. Recovery was within criteria on the primary column.

GROUNDWATER ANALYTICAL

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www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: —	Firm: EH+E
Project Number: 17278	Address: 117 4th Ave
Sampler Name: EVH, ASB	City / State / Zip: Needham, MA 02494
Project Manager: CDC	Telephone: 781 247 4300

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☒ RUSH (RAN- by Mon 7/18/11)
  (Rush requires Rush Authorization Number)
- ☒ Please Email to ccampisano@eheinc.com
- ☐ Please FAX to: _____

BILLING

- ☒ Purchase Order No.: 1002033
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: Volatiles: ☐ TIC Search | Semivolatiles: ☐ Acid Only ☐ B/N Only ☐ TIC Search | Pest/Herb/PCBs Extractable: ☐ 505 ☐ 508 | Vol.: ☐ 504.1 EDB/DBCP | Metals: Specify for Water Samples ☐ Total ☐ Dissolved | Petroleum Hydrocarbon Ext. TPH: ☐ TPH-IR ☐ Diesel Range Organics (DRO) ☐ MF DRO ☐ CT ETPH ☐ MA DEP EPH w/all targets ☐ EPH Carbon Ranges only ☐ EPH w/4 PAHs ☐ Hydrocarbon Fingerprint (GC/FID) by ASTM D3328 (60 Mod.) ☐ TPH by GC/FID (8015B Mod) Quantitative Only ☐ Gasoline Range Organics (GRO) ☐ ME GRO ☐ MA DEP VPH w/all targets ☐ VPH Carbon ranges only | Vol. TPH | Haz. Waste: ☐ TCLP ☐ SPLP ☐ 8 Metals ☐ Phenols ☐ VOA ☐ Semi VOA ☐ Pesticides ☐ Herbicides ☐ Corrosivity (as pH) ☐ Reactivity ☐ Ignitability (as Flashpoint) ☐ Paint Filter ☐ MA Basic Disposal Criteria: 9250B, TPH by GC, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity | General Chemistry: ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Fluoride ☐ Sulfate ☐ Dissolved Phosphorus ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as NH3/NO3/TKN) ☐ Oil & Grease ☐ COD ☐ TOC ☐ BOD ☐ TDS ☐ TSS ☐ TS ☐ Alkalinity ☐ Cyanide, Total ☐ Cyanide, Physiologically Available ☐ pH ☐ Dissolved Oxygen ☐ Turbidity ☐ Total Coliform ☐ Fecal Coliform ☐ HPC | Other

SDWA: ☐ 524.2+MTBE | ☐ 525.2 | ☐ 505 ☐ 508 | ☐ 504.1 EDB/DBCP | ☐ Lead and Copper

NPDES: ☐ 624 | ☐ 625 | ☐ 625 PAHs only | ☐ 608 Pesticides | ☐ 608 PCBs | ☐ 1631.1 | ☐ 515.1 | ☐ 13 Priority Pollutant

RCRA/21E: ☐ 8260B TCL+MTBE ☐ 8260B NH PETROLEUM ☐ 8260B | ☐ 8270C | ☐ 8270C PAHs only | ☐ 8081A Pesticides | ☐ 8082 PCBs W/ sonic extraction | ☐ 8151A Herbicides | ☐ 8011 EDB/DBCP | ☐ 8 RCRA ☐ 5 RCRA ☐ MA List Metals ☐ 23 TAL | ☐ Specify:

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s) NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: HCl	HNO3	H2SO4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
7/13/11	1210	125376-SF17				X			X		3		X															X	Y	N	
	1219	125377-SF19A																													
	1232	125378-SF19B																													
	1244	125379-SF21A																													
	1234	125380-SF21B																													
	1323	125381-SF22A																													
	1323	125382-SF22A-D																													
	1325	125383-SF22B																													
	1325	125384-SF22B-MS																													
	1345	125386-SF23A																													
	1339	125387-SF23B																													
	1400	125388-SF7A																													

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample included.

(Require collection of contingent duplicate sample. Trip blanks are also required, if VOA sample collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Please use sample:
☐ Matrix Spike	_____
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date 14 JUL 11 Time 1050	Received by:	Receipt Temperature: ☒ Ice ☐ Refrigerated 2-6°C Recommended 5.7°C
Relinquished by:	Date Time	Received by:	Container Count:
Relinquished by:	Date Time	Received by Laboratory:	Shipping/Airbill Number:
Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____			Custody Seal Number:

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Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name: —	Firm: EH&E
Project Number: 17228	Address: 117 4th Ave
Sampler Name: EH, ASB	City / State / Zip: Needham, MA 02494
Project Manager: COC	Telephone: 781 247 4300

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☒ RUSH (RAN- by Mon 7/18/11)
  (Rush requires Rush Authorization Number)
- ☒ Please Email to: ccampisano@ehsinc.com
- ☐ Please FAX to: _____

BILLING

- ☒ Purchase Order No.: 1002033
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

Sampling DATE	Sampling TIME	SAMPLE IDENTIFICATION	Matrix: GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	Type: COMPOSITE	GRAB	Container(s): NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	Preservation: HCl	HNO3	H2SO4	NaOH	Methanol	Sodium Bisulfate	ICE	Filtered: YES	NO	LABORATORY NUMBER (Lab Use Only)
7/13/11	1325	125385-SF22B MSD				X			X		4			X														X		
	1352	125389-SF1B																												
	1418	125390-SF33A																												
	1420	125391-SF33B																												
	1443	125392-SF53A																												
	1448	125393-SF53B																												
	1443	125394-SF53A-MS																												
	1443	125395-SF53A-MSD																												
	1448	125396-SF53B-D																												
	1525	125397-SF36																												
↓	1536	125398-SF38																												

ANALYSIS REQUEST

OPTIONS	SDWA	NPDES	RCRA/21E	Volatiles	Semivolatiles	Pest/Herb/PCBs Extractable	Pest/Herb/PCBs Vol.	Metals	Petroleum Hydrocarbon Ext. TPH	Petroleum Hydrocarbon Vol. TPH	Haz. Waste	General Chemistry	Other
☐ TIC Search	☐ 524.2-MTBE	☐ 624	☐ 8260B TCL+MTBE ☐ 8260B NH PETROLEUM ☐ 8260B	☐ 602-MTBE ☐ 8021B Aromatics	☐ 601 ☐ 8021B Halocarbons	☐ 601/602+MTBE ☐ 8021B	☐ Acid Only ☐ B/N Only ☐ TIC Search	☐ 525.2 ☐ 625 ☐ 8270C ☐ 8270C PAHs only	☐ 505 ☐ 508 ☐ 608 Pesticides ☐ 8081A Pesticides	☐ 608 PCBs ☐ 8082 PCBs W/ SOXLET EXTRACTION	☐ 531.1 ☐ 515.1 ☐ 615 ☐ 8151A Herbicides	☐ 504.1 EDB/DBCP ☐ 8011 EDB/DBCP	Specify For Water Samples ☐ Total ☐ Dissolved ☐ Lead and Copper ☐ 13 Priority Pollutant ☐ 8 RCRA ☐ 5 RCRA ☐ MA List Metals ☐ 23 TAL ☐ Specify:	☐ TPH-IR ☐ Diesel Range Organics (DRO) ☐ ME DRO ☐ CT ETPH ☐ MA DEP EPH w/all targets ☐ EPH Carbon Ranges only ☐ EPH: w/4 PAHs ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-00-Mod.) ☐ TPH by GC/FID (8015B Mod) Quantitative Only ☐ Gasoline Range Organics (GRO) ☐ ME GRO ☐ MA DEP VPH w/all targets ☐ VPH Carbon ranges only	☐ TCLP ☐ SPLP ☐ 8 Metals ☐ Pb only ☐ VOA ☐ Semi VOA ☐ Pesticides ☐ Herbicides ☐ Corrosivity (as pH) ☐ Reactivity ☐ Ignitability (as Flashpoint) ☐ Paint Filter ☐ MA Basic Disposal Criteria: 8260B, TPH by GC, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity	☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Fluoride ☐ Sulfate ☐ Dissolved Phosphorus ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as NO2/NO3/TKN) ☐ Oil & Grease ☐ COD ☐ TOC ☐ BOD ☐ TDS ☐ TSS ☐ TS ☐ Alkalinity ☐ Cyanide, Total ☐ Cyanide, Physiologically Available ☐ pH ☐ Dissolved Oxygen ☐ Turbidity ☐ Total Coliform ☐ Fecal Coliform ☐ HPC	

REMARKS / SPECIAL INSTRUCTIONS

MA DEP MCP Data Enhancement Affirmation

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample included.
  (Require collection of contingent duplicate sample.
  Trip blanks are also required, if VOA sample collected).

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required	Selection of QC Sample
☐ Sample Duplicate	☐ Please use sample:
☐ Matrix Spike	_____
☐ Matrix Spike Duplicate	

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

	Date	Time		
Relinquished by Sampler: Alan S. Bell	14 Jul 11	1450	Received by:	Receipt Temperature: ☒ Ice ☐ Refrigerated 2-4°C Recommended 5.7°C
Relinquished by:	Date	Time	Received by:	Container Count:
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:
Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____				Custody Seal Number:

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3770-X**	Extracted:	**07-14-11 21:00**	Extracted:	**07-14-11 21:00**
Matrix:	**Soil**	Cleaned Up:	**07-15-11 22:00**	Cleaned Up:	**07-15-11 22:00**
Units:	**ug/Kg**	Analyzed:	**07-16-11 03:06**	Analyzed:	**07-16-11 03:30**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	170	170	**102%**	**101%**	170	170	170	**102%**	**104%**	**0 %**	**2 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	170	180	**103%**	**105%**	170	170	180	**103%**	**107%**	**0 %**	**2 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	6.7	6.7	6.6	**101%**	**100%**	6.7	6.5	6.5	**98%**	**98%**		30 - 150 %
Decachlorobiphenyl	6.7	4.7	4.7	**70%**	**71%**	6.7	4.6	4.7	**70%**	**71%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3770-X**	Extracted:	**07-14-11 21:00**
Matrix:	**Soil**	Cleaned Up:	**07-15-11 22:00**
		Analyzed:	**07-16-11 02:43**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4.3	**65** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.6	**100** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4.6	**69** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3771-X**	Extracted:	**07-14-11 21:30**	Extracted:	**07-14-11 21:30**
Matrix:	**Soil**	Cleaned Up:	**07-15-11 20:00**	Cleaned Up:	**07-15-11 20:00**
Units:	**ug/Kg**	Analyzed:	**07-16-11 13:44**	Analyzed:	**07-16-11 14:08**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	190	180	**115%**	**110%**	170	200	180	**118%**	**106%**	**2 %**	**3 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	180	180	**107%**	**109%**	170	180	180	**108%**	**110%**	**1 %**	**1 %**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	6.7	6.9	6.7	**103%**	**101%**	6.7	6.9	6.7	**103%**	**101%**	30 - 150 %
Decachlorobiphenyl	6.7	4.4	4.5	**66%**	**68%**	6.7	4.5	4.6	**67%**	**69%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3771-X**	Extracted:	**07-14-11 21:30**
Matrix:	**Soil**	Cleaned Up:	**07-15-11 20:00**
		Analyzed:	**07-16-11 13:20**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4	**60** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	6.7	6.5	**98** %	30 - 150 %
Column	Decachlorobiphenyl	6.7	4.2	**64** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

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Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8

GROUNDWATER ANALYTICAL

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Buzzards Bay, MA 02532

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July 21, 2011

Ms. Cindy Campisano
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

LABORATORY REPORT

Project: **EH&E**
Lab ID: **143466**
Received: **07-15-11**

Dear Cindy:

Enclosed are the analytical results for the above referenced project. The project was processed for Rush 4 Business Day turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. The analytical results relate only to the samples received. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Karyn E. Raymond

Karyn E. Raymond
Project Manager

KER/ker

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **EH&E**
Client: **Environmental Health & Engineering, Inc.**
Lab ID: **143466**

Delivery: **GWA Courier**
Airbill: **n/a**
Lab Receipt: **07-15-11**

Temperature: **3.4ºC**
Chain of Custody: **Present**
Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-1	125430-C-1-A		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028748	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-2	125431-C-1-B		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028755	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-3	125432-C-1-C		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028756	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-4	125433-C-2-A		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028763	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-5	125434-C-2-B		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028764	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-6	125435-C-3-A		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028771	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-7	125436-C-4-A		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028770	120 mL Amber Glass	Proline	BX39298	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-8	125437-C-5-A		Soil	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2028746	120 mL Amber Glass	Proline	BX39299	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-9	125134		Aqueous	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C2039401	1 L Amber Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
143466-10	125135		Aqueous	7/15/11 0:00	EPA 8082 PCBs				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C1325643	1 L Amber Glass	Industrial	BX38429	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project: **EH&E** Lab ID: **143466**
Client: **Environmental Health & Engineering, Inc.** Received: **07-15-11 00:01**

Mass DEP Analytical Protocol Certification Form

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 8082: 143466-1,-2,-3,-4,-5,-6,-7,-8,-9,-10

Sample Matrices: Groundwater/Surface ( ) Soil/Sediment (X) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC CAM II A ( )	7470/7471 Hg CAM III B ( )	Mass DEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	Mass DEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	Mass DEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9012 Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

An affirmative response to questions A through F are required for "Presumptive Certainty" status.

A.	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratoratory, and prepared/analyzed within method holding times?	Yes
B.	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes
C.	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes
D.	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes
E.	VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	n/a
F.	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes

Responses to questions G, H and I below are required for "Presumptive Certainty" status.

G.	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	Yes

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.

H.	Were all QC performance standards specified in the CAM protocol(s) achieved?	No
I.	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Project Manager

Printed Name: Karyn E. Raymond Date: 07-21-11

Karyn E. Raymond

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125430-C-1-A**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-01**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**30 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 18:50**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**82**	1C (76)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	5	**76** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**61** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	5	**70** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**63** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125431-C-1-B**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-02**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**31 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 19:13**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**89**	1C (75)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**90** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**63** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**90** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**63** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125432-C-1-C**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-03**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**31 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 19:37**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	**110**	1C (88)*	ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**94** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**66** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**97** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**63** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125433-C-2-A**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-04**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**30 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 20:01**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
	Decachlorobiphenyl	7	4	**63** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**88** %	30 - 150 %
	Decachlorobiphenyl	7	4	**65** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125434-C-2-B**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-05**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**31 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 20:25**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
	Decachlorobiphenyl	7	4	**63** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
	Decachlorobiphenyl	7	4	**63** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125435-C-3-A**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-06**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**30 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 20:48**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
	Decachlorobiphenyl	7	4	**63** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	7	6	**89** %	30 - 150 %
	Decachlorobiphenyl	7	4	**64** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125436-C-4-A**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-07**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**31 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 21:12**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	4	**55** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**61** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	4	**57** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**61** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125437-C-5-A**	Matrix:	**Solid**
Project:	**EH&E**	Container:	**120 mL Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-08**	QC Batch ID:	**PB-3772-X**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**31 g**
Extracted:	**07-18-11 13:45**	Final Volume:	**1 mL**
Cleaned Up:	**07-19-11 13:30**	Percent Solids:	**na**
Analyzed:	**07-19-11 23:10**	Dilution Factor:	**1**
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	**56**	1C (48)*	ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	7	6	**86** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**57** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	7	6	**87** %	30 - 150 %
Column	Decachlorobiphenyl	7	4	**58** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations:

BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

* Confirmatory column quantification.

1C Concentration reported from first column.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125134**	Matrix:	**Aqueous**
Project:	**EH&E**	Container:	**1 L Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-09**	QC Batch ID:	**PB-2708-F**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**1000 mL**
Extracted:	**07-18-11 16:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-18-11 20:30**	Dilution Factor:	**1**
Analyzed:	**07-19-11 14:52**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.20	0.21	**105** %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.10	**52** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.20	0.17	**83** %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.11	**57** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

EPA Method 8082
Polychlorinated Biphenyls (PCBs) by GC/ECD

Field ID:	**125135**	Matrix:	**Aqueous**
Project:	**EH&E**	Container:	**1 L Amber Glass**
Client:	**Environmental Health & Engineering, Inc.**	Preservation:	**Cool**
Laboratory ID:	**143466-10**	QC Batch ID:	**PB-2708-F**
Sampled:	**07-15-11 00:00**	Instrument ID:	**GC-13 Agilent 6890**
Received:	**07-15-11 00:01**	Sample Weight:	**1000 mL**
Extracted:	**07-18-11 16:30**	Final Volume:	**1 mL**
Cleaned Up:	**07-18-11 20:30**	Dilution Factor:	**1**
Analyzed:	**07-19-11 15:16**		
Analyst:	**CRL**		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.20	0.23	**115** %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.11	**55** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.20	0.19	**93** %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.12	**58** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Project Narrative

Project:	**EH&E**	Lab ID:	**143466**
Client:	**Environmental Health & Engineering, Inc.**	Received:	**07-15-11 00:01**

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1 . No documentation discrepancies, changes, or amendments were noted.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1 . Samples 143466-1,-2,-3,-4,-5,-6,-7,-8,-9 and -10 were not received with sample collection times listed on the Chain of Custody. Samples were reported with a sampling collection time of 00:00 by the laboratory.

2 . EPA 8082 Non-conformance: Samples 143466-1 through -8. Laboratory control sample duplicate (LCSD) had surrogate outside of recommended limits on one column.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 14 JULY 2011

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: GROUNDWATER ANALYTICAL

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # _____

The cost of this analysis will be covered by EH&E Purchase Order # _____

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
125430-C-1-A	BULK	EPA 8082 - U/SOXLET EXTRACTION	
125431-C-1-B			
125432-C-1-C			
125433-C2-A			
125434-C2-B			
125435-C3-A			
125436-C4-A			
125437-C5-A			
~~125438-C6-A~~			
125134	LIQUID		
125135	LIQUID		

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES**

☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient CCAMPESANO@EHEINC.COM

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 15 JULY 2011

Received by: _____ of (company name) GWA Date: 15 JULY 2011

Relinquished by: _____ of (company name) GWA Date: 15 JULY 2011

Received by: _____ of (company name) GWA Date: 7/15/2011

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

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10 TOTAL / 3.4

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans,* US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste,* US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3772-X**	Extracted:	**07-18-11 13:45**	Extracted:	**07-18-11 13:45**
Matrix:	**Soil**	Cleaned Up:	**07-19-11 13:30**	Cleaned Up:	**07-19-11 13:30**
Units:	**ug/Kg**	Analyzed:	**07-19-11 18:02**	Analyzed:	**07-19-11 18:26**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	170	170	160	**104%**	**96%**	170	210	180	**127%**	**108%**	**20 %**	**12 %**	40 - 140%	30 %
11096-82-5	Aroclor 1260	170	150	170	**90%**	**99%**	170	160	180	**99%**	**106%**	**9 %**	*7* **%**	40 - 140%	30 %

QC Surrogate Compound	Surrogate Recovery											QC Limits
Tetrachloro-*m* -xylene	6.7	7	6.5	**106%**	**97%**	6.7	13	6	**197%** q	**90%**		30 - 150 %
Decachlorobiphenyl	6.7	3.8	3.9	**57%**	**59%**	6.7	3.8	4.2	**57%**	**63%**		30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

q Surrogate recovery outside recommended limits.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-3772-X**	Extracted:	**07-18-11 13:45**
Matrix:	**Soil**	Cleaned Up:	**07-19-11 13:30**
		Analyzed:	**07-19-11 17:39**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/Kg	40
11104-28-2	Aroclor 1221	BRL		ug/Kg	40
11141-16-5	Aroclor 1232	BRL		ug/Kg	40
53469-21-9	Aroclor 1242	BRL		ug/Kg	40
12672-29-6	Aroclor 1248	BRL		ug/Kg	40
11097-69-1	Aroclor 1254	BRL		ug/Kg	40
11096-82-5	Aroclor 1260	BRL		ug/Kg	40
37324-23-5	Aroclor 1262 †	BRL		ug/Kg	40
11100-14-4	Aroclor 1268 †	BRL		ug/Kg	40

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First Column	Tetrachloro-*m*-xylene	6.7	6.6	**100** %	30 - 150 %
	Decachlorobiphenyl	6.7	3.5	**52** %	30 - 150 %
Second Column	Tetrachloro-*m*-xylene	6.7	6.3	**95** %	30 - 150 %
	Decachlorobiphenyl	6.7	3.8	**57** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3540C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Quality Control Report
Laboratory Control Samples

		LCS		LCSD	
Category:	**EPA 8082**	Instrument ID:	**GC-13 Agilent 6890**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-2708-F**	Extracted:	**07-18-11 16:30**	Extracted:	**07-18-11 16:30**
Matrix:	**Aqueous**	Cleaned Up:	**07-18-11 20:30**	Cleaned Up:	**07-18-11 20:30**
Units:	**ug/L**	Analyzed:	**07-19-11 13:17**	Analyzed:	**07-19-11 13:40**
		Analyst:	**CRL**	Analyst:	**CRL**

CAS Number	Analyte	LCS					LCS Duplicate							QC Limits	
		Spiked	Measured		Recovery		Spiked	Measured		Recovery		RPD			
			1st Col	2nd Col	1st Col	2nd Col		1st Col	2nd Col	1st Col	2nd Col	1st Col	2nd Col	Spike	RPD
12674-11-2	Aroclor 1016	5.0	4.7	4.7	**95%**	**95%**	5.0	5.0	5.0	**100%**	**101%**	**6 %**	**6 %**	40 - 140%	20 %
11096-82-5	Aroclor 1260	5.0	4.2	4.5	**85%**	**90%**	5.0	4.4	4.6	**88%**	**92%**	**4 %**	**2 %**	40 - 140%	20 %

QC Surrogate Compound	Surrogate Recovery										QC Limits
Tetrachloro-*m* -xylene	0.20	0.17	0.18	**87%**	**89%**	0.20	0.19	0.19	**94%**	**93%**	30 - 150 %
Decachlorobiphenyl	0.20	0.10	0.10	**49%**	**51%**	0.20	0.10	0.11	**51%**	**53%**	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

GROUNDWATER ANALYTICAL

Quality Control Report
Method Blank

Category:	**EPA Method 8082**	Instrument ID:	**GC-13 Agilent 6890**
QC Batch ID:	**PB-2708-F**	Extracted:	**07-18-11 16:30**
Matrix:	**Aqueous**	Cleaned Up:	**07-18-11 20:30**
		Analyzed:	**07-19-11 12:53**
		Analyst:	**CRL**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016	BRL		ug/L	0.2
11104-28-2	Aroclor 1221	BRL		ug/L	0.2
11141-16-5	Aroclor 1232	BRL		ug/L	0.2
53469-21-9	Aroclor 1242	BRL		ug/L	0.2
12672-29-6	Aroclor 1248	BRL		ug/L	0.2
11097-69-1	Aroclor 1254	BRL		ug/L	0.2
11096-82-5	Aroclor 1260	BRL		ug/L	0.2
37324-23-5	Aroclor 1262 †	BRL		ug/L	0.2
11100-14-4	Aroclor 1268 †	BRL		ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro-*m*-xylene	0.20	0.17	**83** %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.09	**45** %	30 - 150 %
Second	Tetrachloro-*m*-xylene	0.20	0.17	**87** %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.10	**47** %	30 - 150 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Non-target analyte. Result is based on a single mid-range calibration standard.

GROUNDWATER ANALYTICAL

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states.
Copies of our current certificates may be obtained from our website:

http://www.groundwateranalytical.com/qualifications.htm

CONNECTICUT

Department of Health Services, PH-0586 — Potable Water, Wastewater, Solid Waste and Soil
http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/Out State.pdf

MASSACHUSETTS

Department of Environmental Protection, M-MA-103 — Potable Water and Non-Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

Department of Labor,
Division of Occupational Safety, AA000195 — Asbestos Analytical Services, Class A
http://www.mass.gov/dos/forms/la-rpt list aa.pdf

NEW HAMPSHIRE

Department of Environmental Services, 202708 — Potable Water, Non-Potable Water, Solid and Chemical Materials
http://www4.egov.nh.gov/DES/NHELAP

NEW YORK

Department of Health, 11754 — Potable Water, Non-Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

RHODE ISLAND

Department of Health,
Division of Laboratories, LAO00054 — Potable and Non-Potable Water Microbiology, Organic and Inorganic Chemistry
http://www.health.ri.gov/labs/outofstatelabs.pdf

U.S. DEPARTMENT OF AGRICULTURE

USDA, Soil Permit, S-53921 — Foreign soil import permit

VERMONT

Department of Health, VT-87643 — Potable Water
http://healthvermont.gov/enviro/ph_lab/water_test.aspx#cert

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

Groundwater Analytical maintains MassDEP environmental laboratory certification for only the methods and analytes listed below. Analyses for certified analytes are conducted in accordance with MassDEP certification standards, except as may be specifically noted in the project narrative.

Potable Water (Drinking Water)

Analyte	Method
1,2-Dibromo-3-Chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1
Alkalinity, Total	SM 2320-B
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7
Barium	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chlorine, Residual Free	SM 4500-CL-G
Chromium	EPA 200.7
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
E. Coli (Treatment and Distribution)	Enz. Sub. SM 9223
E. Coli (Treatment and Distribution)	NA-MUG SM 9222-G
Fecal Coliform (Source Water)	MF SM 9222-D
Fluoride	EPA 300.0
Fluoride	SM 4500-F-C
Haloacetic Acids	EPA 552.2
Heterotrophic Plate Count	SM 9215-B
Lead	EPA 200.8
Mercury	EPA 245.1
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Nitrite-N	EPA 300.0
Nitrite-N	Lachat 10-107-04-1-C
pH	SM 4500-H-B
Selenium	EPA 200.8
Silver	EPA 200.7
Silver	EPA 200.8
Sodium	EPA 200.7
Sulfate	EPA 300.0
Thallium	EPA 200.8
Total Coliform (Treatment and Distribution)	Enz. Sub. SM 9223
Total Coliform (Treatment and Distribution)	MF SM 9222-B
Total Dissolved Solids	SM 2540-C
Trihalomethanes	EPA 524.2
Turbidity	SM 2130-B
Volatile Organic Compounds	EPA 524.2

Non-Potable Water (Wastewater)

Analyte	Method
Aldrin	EPA 608
Alkalinity, Total	SM 2320-B
Alpha-BHC	EPA 608
Aluminum	EPA 200.7
Aluminum	EPA 200.8
Ammonia-N	Lachat 10-107-06-1-B
Antimony	EPA 200.7
Antimony	EPA 200.8
Arsenic	EPA 200.7
Arsenic	EPA 200.8
Beryllium	EPA 200.7
Beryllium	EPA 200.8
Beta-BHC	EPA 608
Biochemical Oxygen Demand	SM 5210-B
Cadmium	EPA 200.7
Cadmium	EPA 200.8
Calcium	EPA 200.7
Chemical Oxygen Demand	SM 5220-D
Chlordane	EPA 608
Chloride	EPA 300.0
Chlorine, Total Residual	SM 4500-CL-G
Chromium	EPA 200.7
Chromium	EPA 200.8
Cobalt	EPA 200.7
Cobalt	EPA 200.8
Copper	EPA 200.7
Copper	EPA 200.8
Cyanide, Total	Lachat 10-204-00-1-A
DDD	EPA 608
DDE	EPA 608
DDT	EPA 608
Delta-BHC	EPA 608
Dieldrin	EPA 608
Endosulfan I	EPA 608
Endosulfan II	EPA 608
Endosulfan Sulfate	EPA 608
Endrin	EPA 608
Endrin Aldehyde	EPA 608
Gamma-BHC	EPA 608
Hardness (CaCO3), Total	EPA 200.7
Hardness (CaCO3), Total	SM 2340-B
Heptachlor	EPA 608
Heptachlor Epoxide	EPA 608
Iron	EPA 200.7
Kjeldahl-N	Lachat 10-107-06-02-D
Lead	EPA 200.7
Magnesium	EPA 200.7
Manganese	EPA 200.7
Manganese	EPA 200.8
Mercury	EPA 245.1
Molybdenum	EPA 200.7
Molybdenum	EPA 200.8
Nickel	EPA 200.7
Nickel	EPA 200.8
Nitrate-N	EPA 300.0
Nitrate-N	Lachat 10-107-04-1-C
Non-Filterable Residue	SM 2540-D
Oil and Grease	EPA 1664

GROUNDWATER ANALYTICAL

Certifications and Approvals

MASSACHUSETTS **Department of Environmental Protection, M-MA-103**

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Non-Potable Water (Wastewater)

Analyte	Method
Orthophosphate	Lachat 10-115-01-1-A
pH	SM 4500-H-B
Phenolics, Total	EPA 420.4
Phenolics, Total	Lachat 10-210-00-1-B
Phosphorus, Total	Lachat 10-115-01-1-C
Phosphorus, Total	SM 4500-P-B,E
Polychlorinated Biphenyls (Oil)	EPA 600/4-81-045
Polychlorinated Biphenyls (Water)	EPA 608
Potassium	EPA 200.7
Selenium	EPA 200.7
Selenium	EPA 200.8
Silver	EPA 200.7
Sodium	EPA 200.7
Specific Conductivity	SM 2510-B
Strontium	EPA 200.7
Sulfate	EPA 300.0
SVOC-Acid Extractables	EPA 625
SVOC-Base/Neutral Extractables	EPA 625
Thallium	EPA 200.7
Thallium	EPA 200.8
Titanium	EPA 200.7
Total Dissolved Solids	SM 2540-C
Total Organic Carbon	SM 5310-B
Toxaphene	EPA 608
Vanadium	EPA 200.7
Vanadium	EPA 200.8
Volatile Aromatics	EPA 602
Volatile Aromatics	EPA 624
Volatile Halocarbons	EPA 624
Zinc	EPA 200.7
Zinc	EPA 200.8